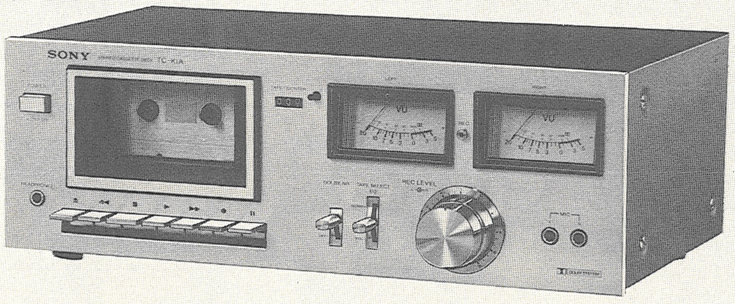
TC-K1A

US Model
AEP Model
UK Model
E Model



STEREO CASSETTE DECK

SPECIFICATIONS

GENERAL

Power Requirements:	120 V ac, 60 Hz (US model) 240 V ac, 50 Hz (UK model) 120, 220 V ac, 50 Hz (AEP model) 110, 120, 220, 240 V ac, adjustable 50/60 Hz (E model)
Power Consumption:	10W (US model) 13W (AEP, E, UK model)
Dimensions:	Approx. 410 (w) x 145 (h) x 260 (d) mm 16 1/8 (w) x 5 3/4 (h) x 10 1/4 (d) inches including projecting parts and controls
Weight:	5 kg, 11 lb

TAPE RECORDER SECTION

Track:	4-track 2-channel stereo
Fast Forward and Rewind Time:	Approx. 90 seconds with Sony cassette C-60

— Continued on page 2 —

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

'Dolby' and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.

SONY®

SERVICE MANUAL

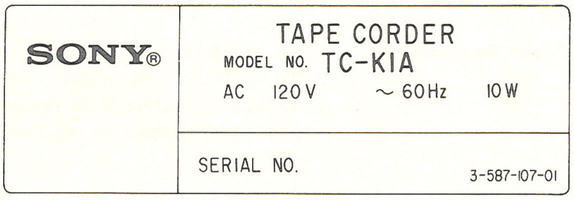
Frequency Response:	DOLBY NR OFF With Ferri-Chrome cassette 30–15,000 Hz 50–13,000 Hz ±3 dB With chromium dioxide cassette 30–15,000 Hz 50–13,000 Hz ±3 dB With standard cassette 30–13,000 Hz
Wow and Flutter:	0.08% WRMS
S/N Ratio:	DOLBY NR OFF With Ferri-Chrome cassette 55 dB at peak level With chromium dioxide cassette 53 dB at peak level DOLBY NR ON Improved by 5 dB at 1 kHz, 10 dB above 5 kHz
Total Harmonic Distortion:	2%
Record Bias Frequency:	80 kHz
Inputs:	MIC (phone jacks) . . . . 2 sensitivity 0.25 mV (−70 dB) for a low-impedance microphone LINE IN (phono jacks) . . . . 2 sensitivity 77.5 mV (−20 dB) input impedance 100 kΩ
Outputs:	LINE OUTPUT (phono plugs) . . . . 2 output level 0.435 V (−5 dB) at load impedance 100 kΩ suitable load impedance more than 10 kΩ HEADPHONES . . . . 1 output level −26 dB at load impedance 8 Ω
REC/PB Jack (DIN):	Input impedance less than 10 kΩ Output impedance less than 10 kΩ

0 dB = 0.775 V

MODEL IDENTIFICATION

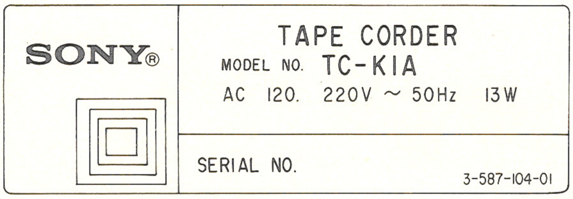
— Specification Label —

US model



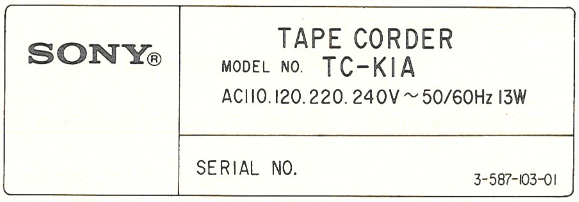
TAPE CORDER
MODEL NO. TC-K1A
AC 120V ~ 60Hz 10W
SERIAL NO.
3-587-107-01

AEP model



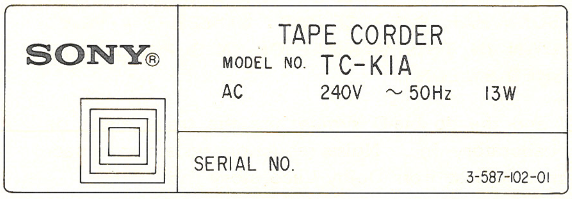
TAPE CORDER
MODEL NO. TC-K1A
AC 120. 220V ~ 50Hz 13W
SERIAL NO.
3-587-104-01

E model



TAPE CORDER
MODEL NO. TC-K1A
AC110. 120. 220. 240V ~ 50/60Hz 13W
SERIAL NO.
3-587-103-01

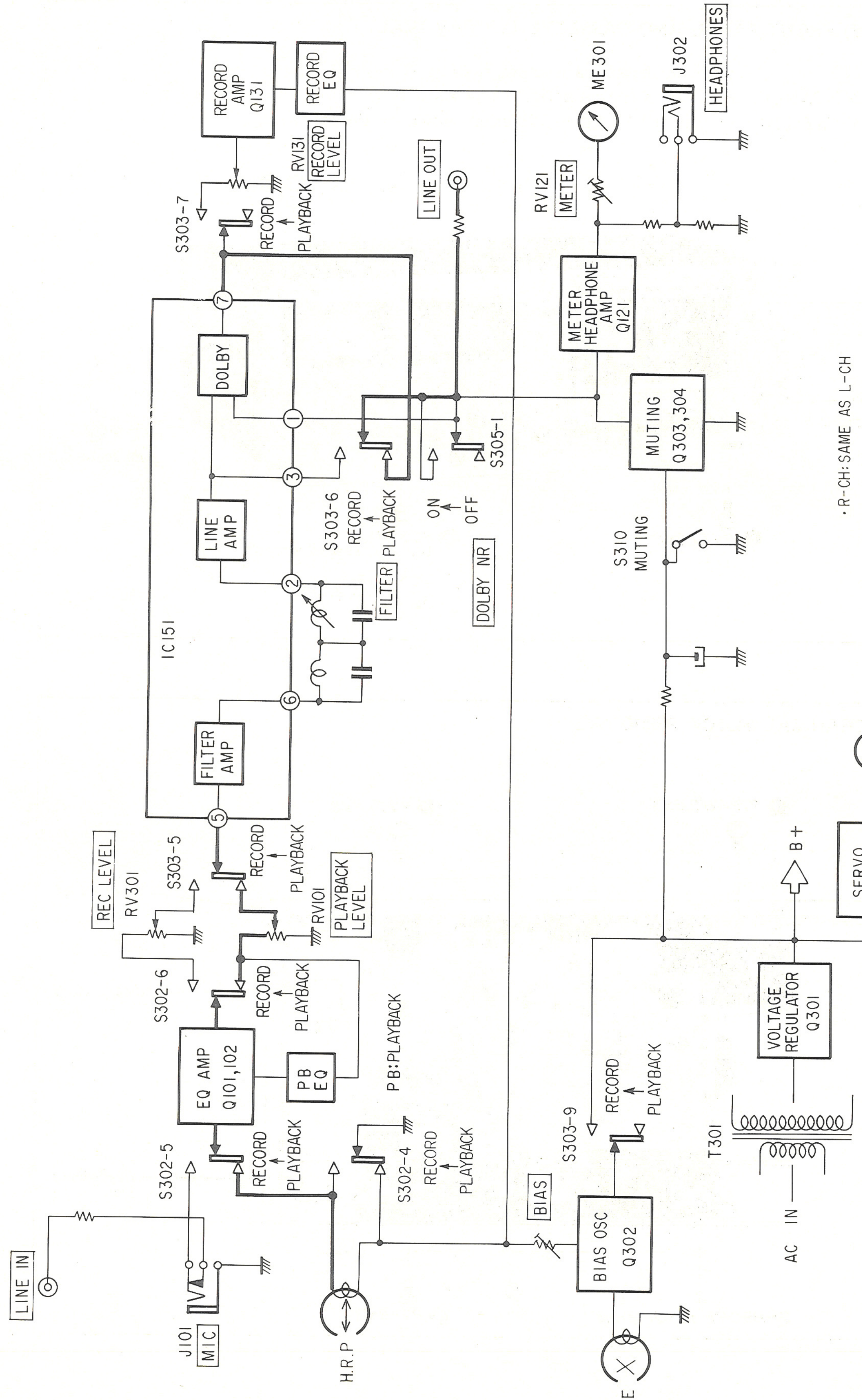
UK model



TAPE CORDER
MODEL NO. TC-K1A
AC 240V ~ 50Hz 13W
SERIAL NO.
3-587-102-01

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

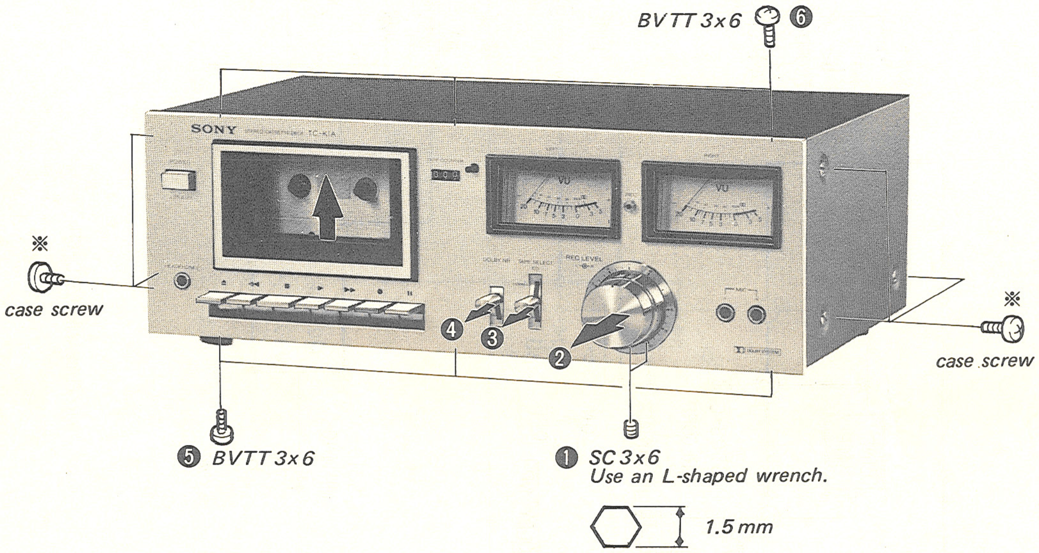

RECORD AMP Q131
RECORD EQ
RV131 RECORD LEVEL
S303-7
RECORD
PLAYBACK
LINE OUT
ME301
J302
HEADPHONES
RV121 METER
METER HEADPHONE AMP Q121
DOLBY
LINE AMP
FILTER AMP
IC151
S303-6
S305-1
ON
OFF
DOLBY NR
FILTER
MUTING Q303,304
S310 MUTING
·R-CH:SAME AS L-CH
M
FG
SERVO Q1001,1002
B+
VOLTAGE REGULATOR Q301
T301
AC IN
REC LEVEL
RV301
S303-5
RV101
PLAYBACK LEVEL
S302-6
EQ AMP Q101,102
PB EQ
PB:PLAYBACK
S302-5
S302-4
LINE IN
J101
MIC
H.R.P
S303-9
BIAS
BIAS OSC Q302
HE

SECTION 2
DISASSEMBLY

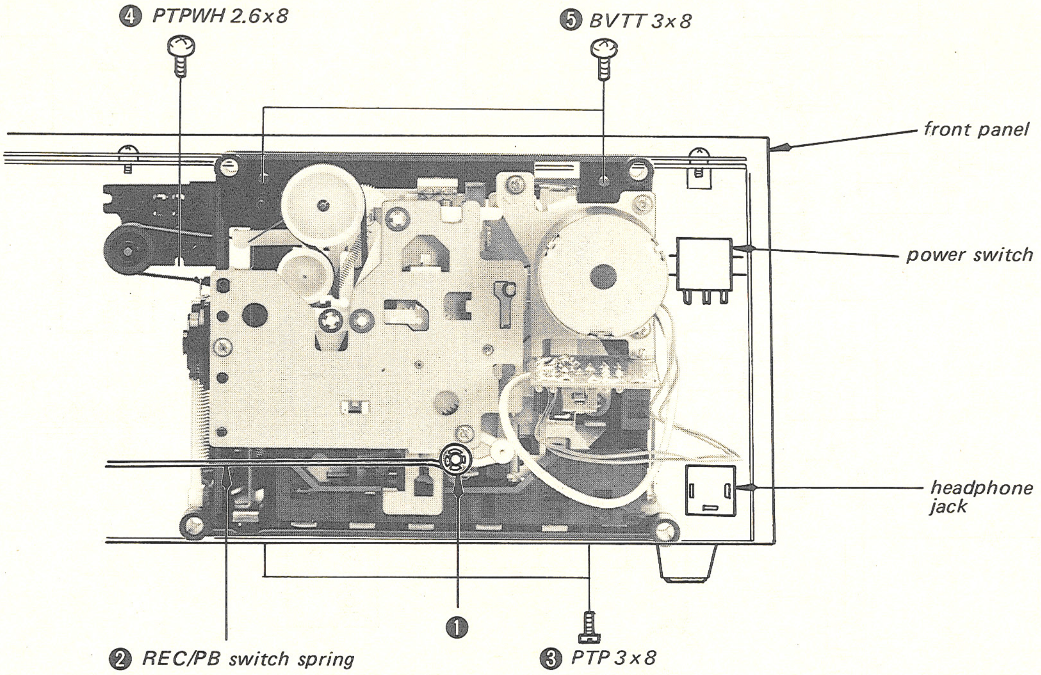
Note: Follow the disassembly procedure in the numerical order given.

CASE, FRONT PANEL AND CASSETTE LID REMOVAL

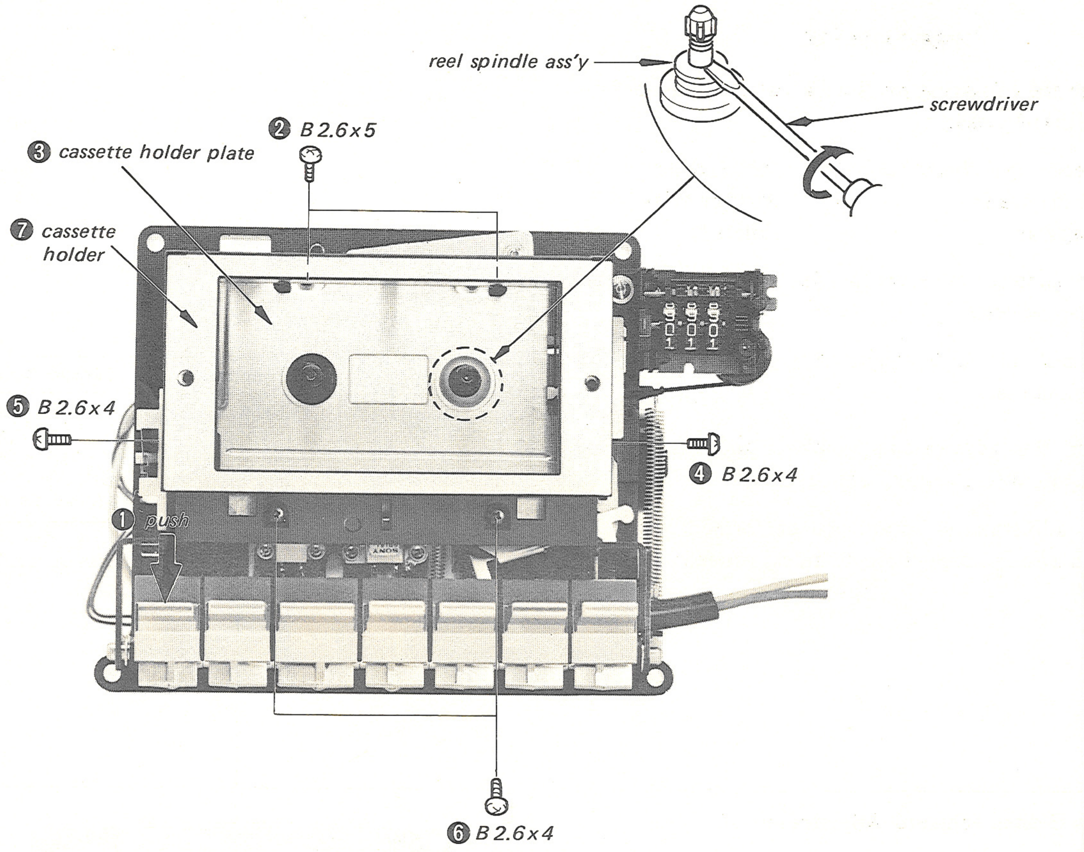
CASE:	Remove the six case screws marked ※.
FRONT PANEL:	Proceed in the numerical order given.
CASSETTE LID:	Lift up the lid in the direction shown by the arrow.


BVTT 3x6 ⑥
※
case screw
④
③
②
※
case screw
⑤ BVTT 3x6
① SC 3x6
Use an L-shaped wrench.
1.5 mm

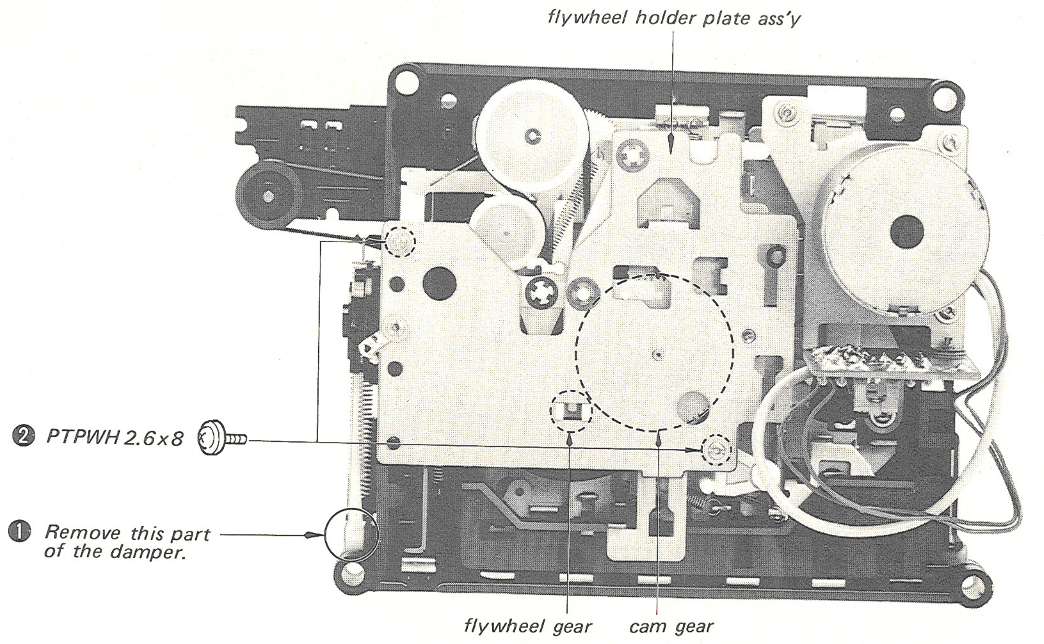
MECHANICAL BLOCK REMOVAL


④ PTPWH 2.6x8
⑤ BVTT 3x8
front panel
power switch
headphone jack
①
② REC/PB switch spring
③ PTP 3x8

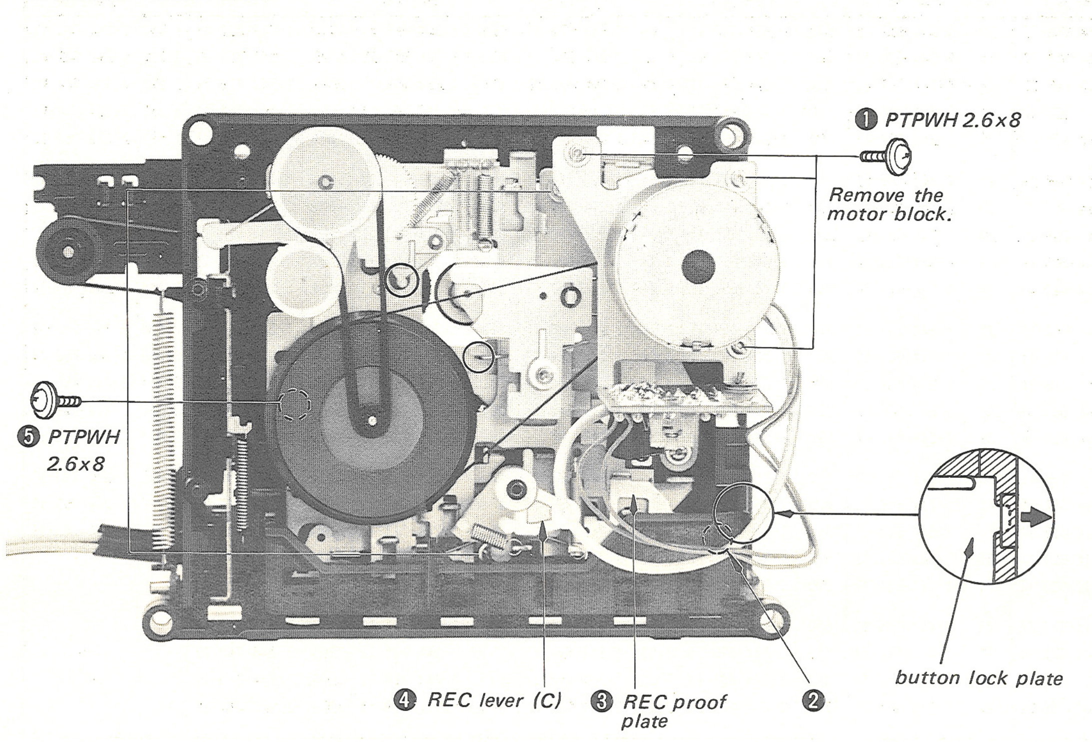
CASSETTE HOLDER AND REEL SPINDLE REMOVAL


reel spindle ass'y
screwdriver
❷ B 2.6x5
❸ cassette holder plate
❼ cassette holder
❺ B 2.6x4
❹ B 2.6x4
❶ push
❻ B 2.6x4

FLYWHEEL HOLDER PLATE REMOVAL


flywheel holder plate ass'y
❷ PTPWH 2.6x8
❶ Remove this part of the damper.
flywheel gear
cam gear

CHASSIS REMOVAL


❶ PTPWH 2.6x8
Remove the motor block.
❺ PTPWH 2.6x8
button lock plate
❹ REC lever (C)
❸ REC proof plate
❷

1/4 WATT CARBON RESISTORS Ⓐ

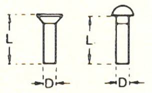
Note: Circled letter Ⓐ is applicable to European models only.

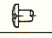
Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*	Ω	*Part No.*
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10k	1-244-697-11	100k	1-244-721-11	1.0M	1-244-745-11
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11	11k	1-244-698-11	110k	1-244-722-11	1.1M	1-244-746-11
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12k	1-244-699-11	120k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11	13k	1-244-700-11	130k	1-244-724-11	1.3M	1-244-748-11
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15k	1-244-701-11	150k	1-244-725-11	1.5M	1-244-749-11
1.6	1-244-606-11	16	1-244-630-11	160	1-244-654-11	1.6k	1-244-678-11	16k	1-244-702-11	160k	1-244-726-11	1.6M	1-244-750-11
1.8	1-244-607-11	18	1-244-631-11	180	1-244-655-11	1.8k	1-244-679-11	18k	1-244-703-11	180k	1-244-737-11	1.8M	1-244-751-11
2.0	1-244-608-11	20	1-244-632-11	200	1-244-656-11	2.0k	1-244-680-11	20k	1-244-704-11	200k	1-244-728-11	2.0M	1-244-752-11
2.2	1-244-609-11	22	1-244-633-11	220	1-244-657-11	2.2k	1-244-681-11	22k	1-244-705-11	220k	1-244-729-11	2.2M	1-244-753-11
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24k	1-244-706-11	240k	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7k	1-244-683-11	27k	1-244-707-11	270k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11	300	1-244-660-11	3.0k	1-244-684-11	30k	1-244-708-11	300k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11	330	1-244-661-11	3.3k	1-244-685-11	33k	1-244-709-11	330k	1-244-733-11	3.3M	1-244-757-11
3.6	1-244-614-11	36	1-244-638-11	360	1-244-662-11	3.6k	1-244-686-11	36k	1-244-710-11	360k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11	390	1-244-663-11	3.9k	1-244-687-11	39k	1-244-711-11	390k	1-244-735-11	3.9M	1-244-759-11
4.3	1-244-616-11	43	1-244-640-11	430	1-244-664-11	4.3k	1-244-688-11	43k	1-244-712-11	430k	1-244-736-11	4.3M	1-244-760-11
4.7	1-244-617-11	47	1-244-641-11	470	1-244-665-11	4.7k	1-244-689-11	47k	1-244-713-11	470k	1-244-737-11	4.7M	1-244-761-11
5.1	1-244-618-11	51	1-244-642-11	510	1-244-666-11	5.1k	1-244-690-11	51k	1-244-714-11	510k	1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11	56k	1-244-715-11	560k	1-244-739-11		
6.2	1-244-620-11	62	1-244-644 11	620	1-244-668-11	6.2k	1-244-692-11	62k	1-244-716-11	620k	1-244-740-11		
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.8k	1-244-693-11	68k	1-244-717-11	680k	1-244-741-11		
7.5	1-244-622-11	75	1-244-646-11	750	1-244-670-11	7.5k	1-244-694-11	75k	1-244-718-11	750k	1-244-742-11		
8.2	1-244-623-11	82	1-244-647-11	820	1-244-671-11	8.2k	1-244-695-11	82k	1-244-719-11	820k	1-244-743-11		
9.1	1-244-624-11	91	1-244-648-11	910	1-244-672-11	9.1k	1-244-696-11	91k	1-244-720-11	910k	1-244-744-11		

HARDWARE NOMENCLATURE

Screw: – P 3 x 10

L: Length in mm
D: Diameter in mm
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means cross-recessed head (Phillips type).

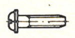
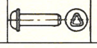
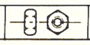


Reference Designation	Shape	Description	Remarks
		SCREWS	
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Nut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCREWS	
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
		NUT	
N		nut	
		WASHERS	
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E		retaining ring	
G		grip-type retaining ring	

SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

   record/playback head
   erase head
   capstan
   pinch roller
   rubber belts
   idlers

2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply a suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

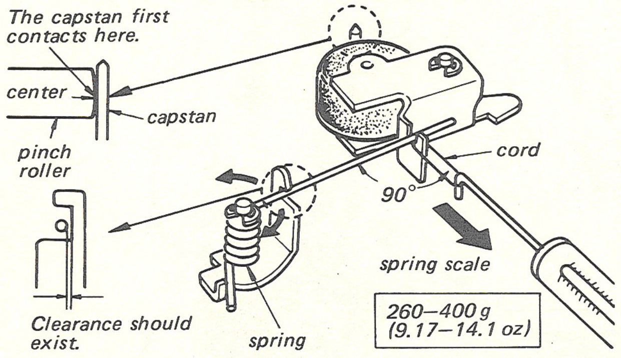
Torque Adjustment

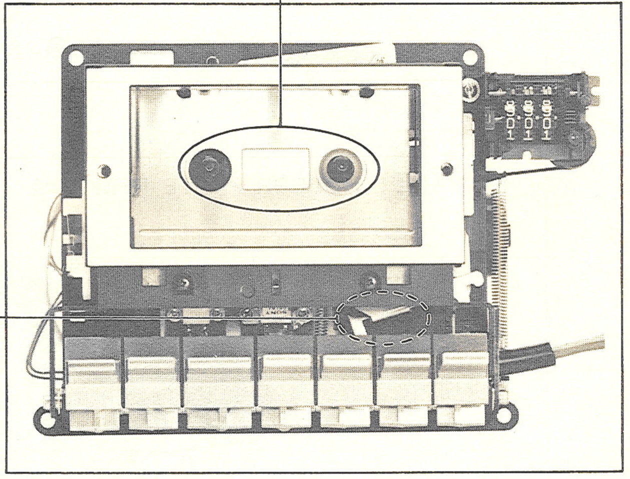
	Torque meter	Meter reading
forward	CQ-101A, 102A, 103A	25–55 g·cm (0.35–0.77 oz·inch)
fast-forward rewind	CQ-201A	50–90 g·cm (0.69–1.25 oz·inch)

Pinch Roller Pressure Adjustment

– playback mode –

1. Pull the spring scale.
2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate.
3. If necessary, change the hooking position.



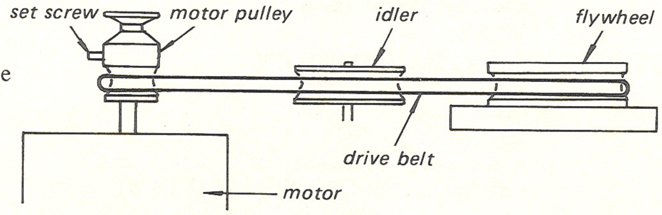


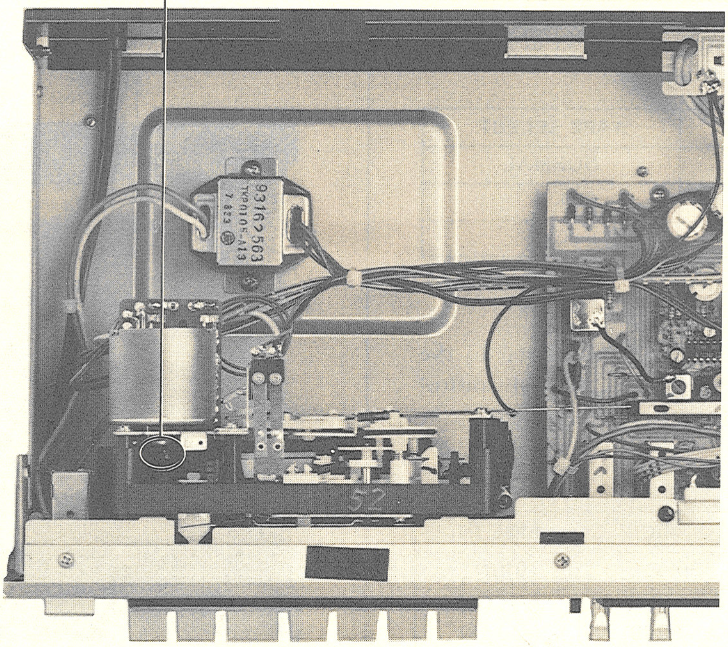
Motor Pulley Height Adjustment

After replacing the motor pulley or the flywheel, this adjustment should be performed.

Procedure:

1. Keep the set horizontal.
2. Adjust the motor pulley height so that the drive belt is straight without twist.


set screw
motor pulley
idler
flywheel
drive belt
motor



3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

Test Equipment/Tools Required:

- audio oscillator (af osc)
- VTVM
- digital frequency counter
- speed checker SONY LFM-30
- oscilloscope
- attenuator (600Ω)
- non-magnetic screwdriver
- resistors .... 600Ω (¼ W), 10 kΩ (¼ W), 100 kΩ (¼ W)
- blank tapes (completely erased with bulk eraser) SONY CS-10 (HF), CS-20 (CrO_2), CS-30 (Fe-Cr)
- SONY test tapes
  - P-4-A81S (6.3 kHz, -10 dB)
  - P-4-L81 (333 Hz, 0 dB)
  - WS-48 (3 kHz, 0 dB)

Switch Setting:

Switch	Position
DOLBY NR	OFF
TAPE SELECT	NORMAL

TAPE SELECT switch settings in accordance with tape used are as follows.

TAPE	TAPE SELECT
CS-10	NORMAL
CS-20	CrO_2
CS-30	Fe-Cr

Standard Record:

Supply the standard input level signal to the LINE IN jack and set the REC LEVEL control to obtain the standard output level signal.

Standard Input Level

	MIC	LINE IN
source impedance	300Ω	10 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

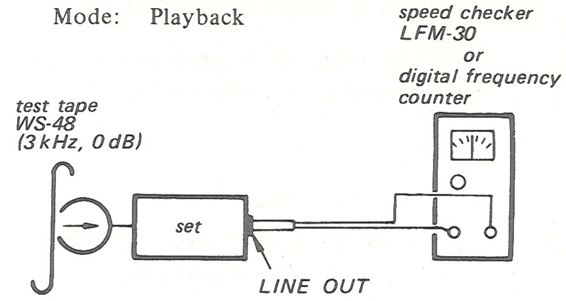
Standard Output Level

	LINE OUT	HEADPHONES
load impedance	100 kΩ	8Ω
output level	0.44 V (-5 dB)	25 mV (-30 dB)

Tape Speed Adjustment

Procedure:

Mode: Playback



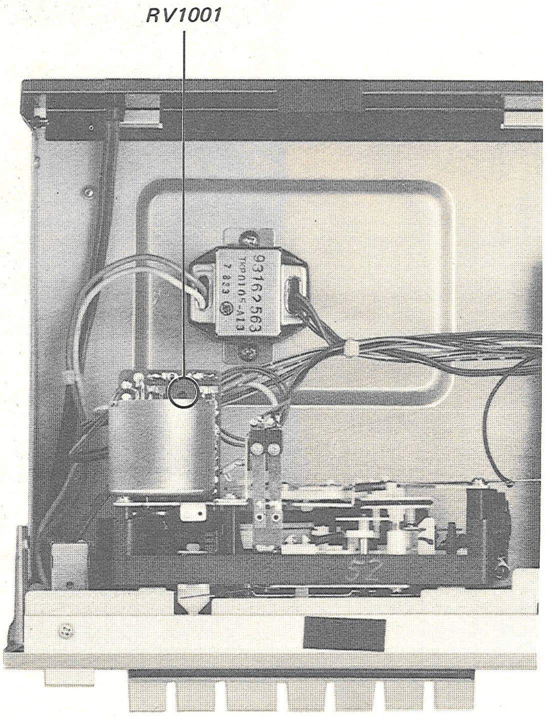
Adjust RV1001 to obtain the specified values below.

Specification:

Speed checker	Digital frequency counter
-2–+3%	2,940–3,090 Hz

Adjustment Location:

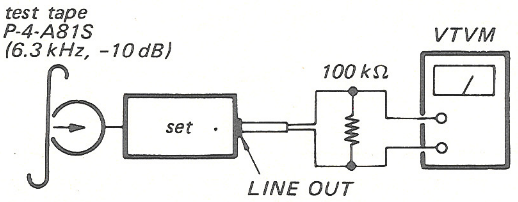
— servo amp board —



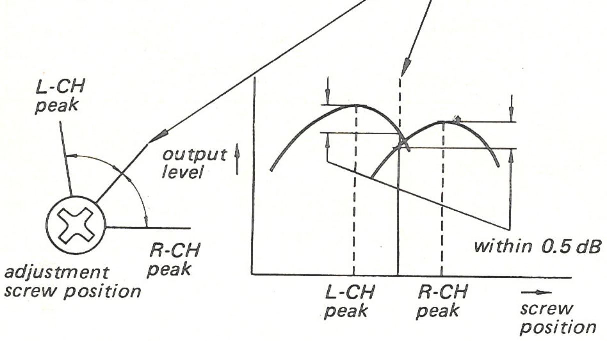
Record/playback Head Azimuth Adjustment

Procedure:

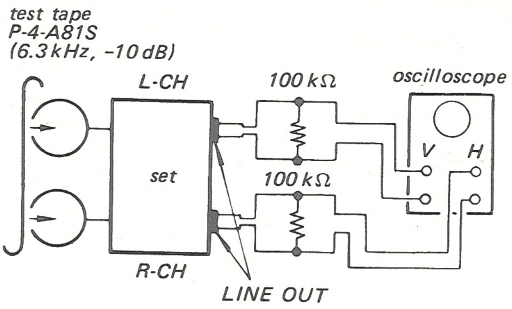
1. Mode: Playback

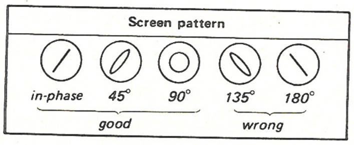

test tape
P-4-A81S
(6.3 kHz, -10 dB)
set
100 kΩ
VTVM
LINE OUT

2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak position.

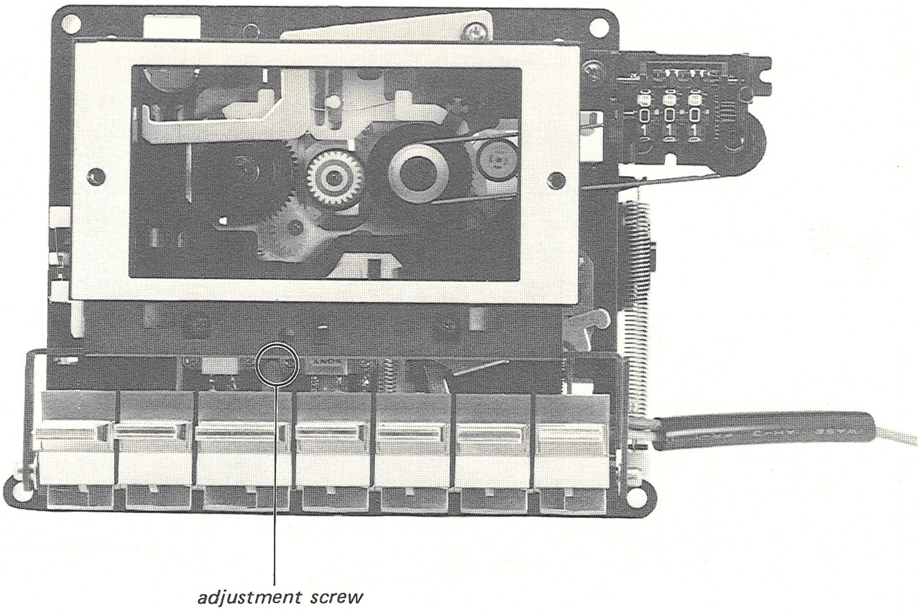


3. Mode: Playback


test tape
P-4-A81S
(6.3 kHz, -10 dB)
L-CH
100 kΩ
oscilloscope
V
H
set
100 kΩ
R-CH
LINE OUT


Screen pattern
in-phase
45°
90°
135°
180°
good
wrong

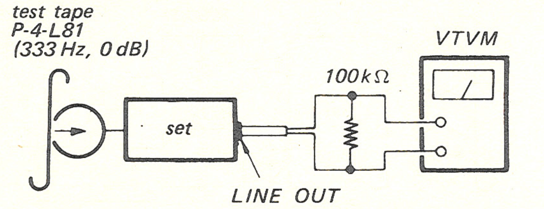
Adjustment Location:


adjustment screw

Playback Level Adjustment

Procedure:

1. Mode: Playback


test tape
P-4-L81
(333 Hz, 0 dB)
VTVM
100kΩ
set
LINE OUT

Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the VTVM reading specified below.

2. Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

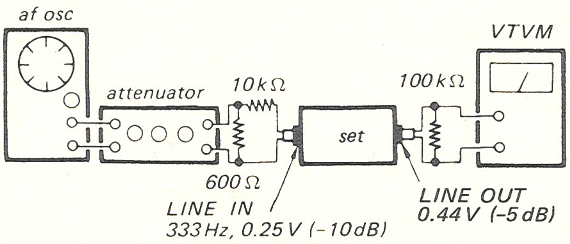
Specification:

LINE OUT level: 0.49 – 0.62 V
(–4 – –2 dB)

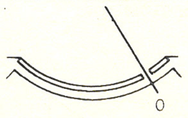
Level Meter Calibration

Procedure:

1. Mode: Standard record (See page 10.)


af osc
attenuator
10kΩ
100kΩ
VTVM
set
600Ω
LINE IN
333 Hz, 0.25 V (-10 dB)
LINE OUT
0.44 V (-5 dB)

2.

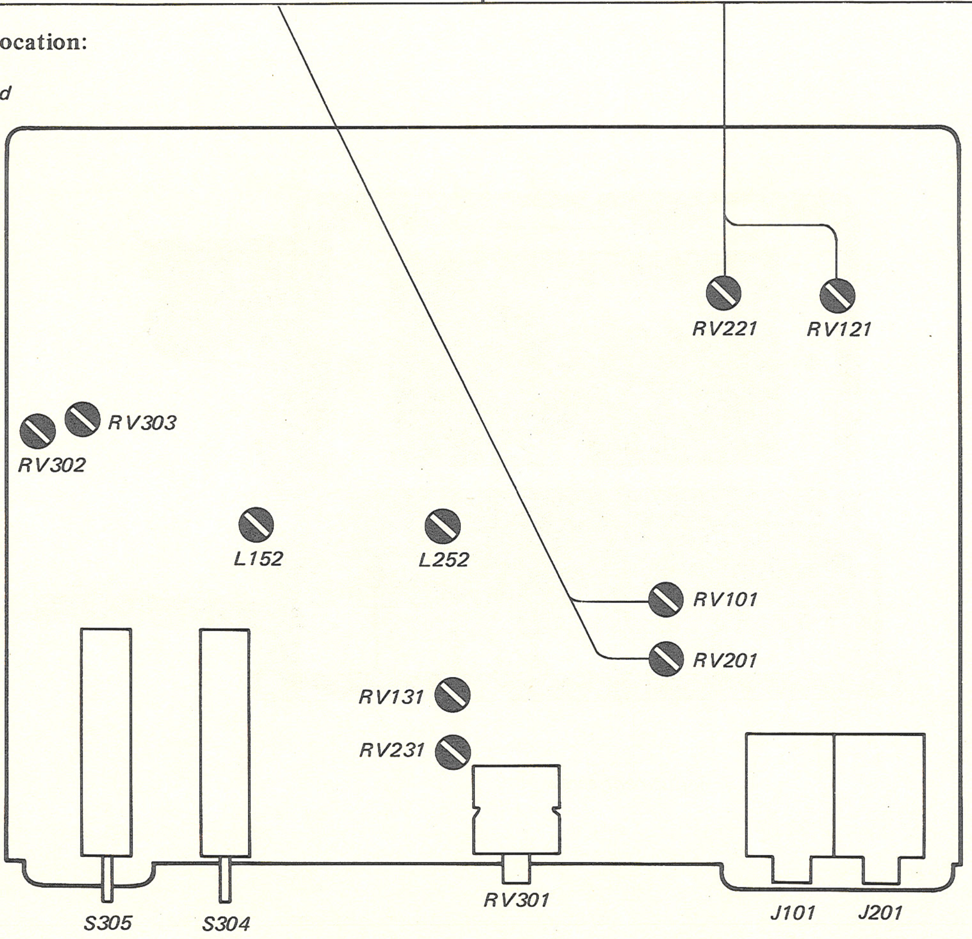
Adjust	Level meter reading: 0VU
RV121 (L-CH) RV221 (R-CH)	

Specification:

When the LINE IN level is adjusted to make 0VU indication, VTVM reading should be 0.44 V (–5 dB).

Adjustment Location:

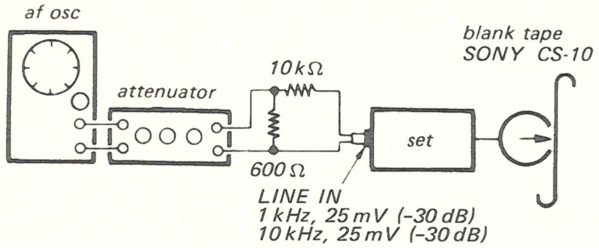
audio amp board


RV221
RV121
RV303
RV302
L152
L252
RV101
RV201
RV131
RV231
S305
S304
RV301
J101
J201

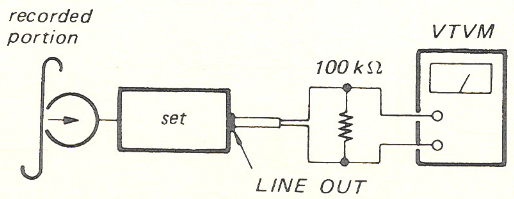
Record Bias Adjustment

Procedure:

1. Mode: Record


af osc
attenuator
10kΩ
600Ω
set
blank tape
SONY CS-10
LINE IN
1 kHz, 25 mV (-30 dB)
10 kHz, 25 mV (-30 dB)

2. Mode: Playback


recorded
portion
set
100 kΩ
VTVM
LINE OUT

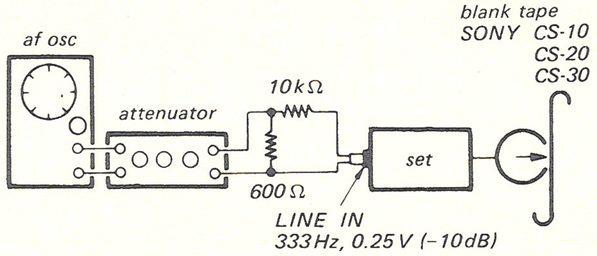
Adjust RV302 (L-CH) and RV303 (R-CH) to make 1 kHz and 10 kHz signal output levels equal.

Level difference between two output levels: 0 dB

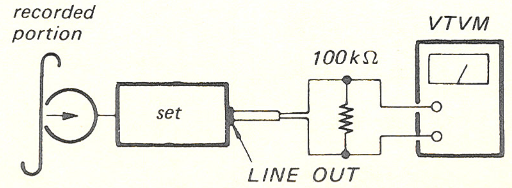
Record Level Adjustment

Procedure:

1. Mode: Standard record (See page 10.)


af osc
attenuator
10kΩ
600Ω
set
blank tape
SONY CS-10
CS-20
CS-30
LINE IN
333 Hz, 0.25 V (-10 dB)

2. Mode: Playback


recorded
portion
set
100 kΩ
VTVM
LINE OUT

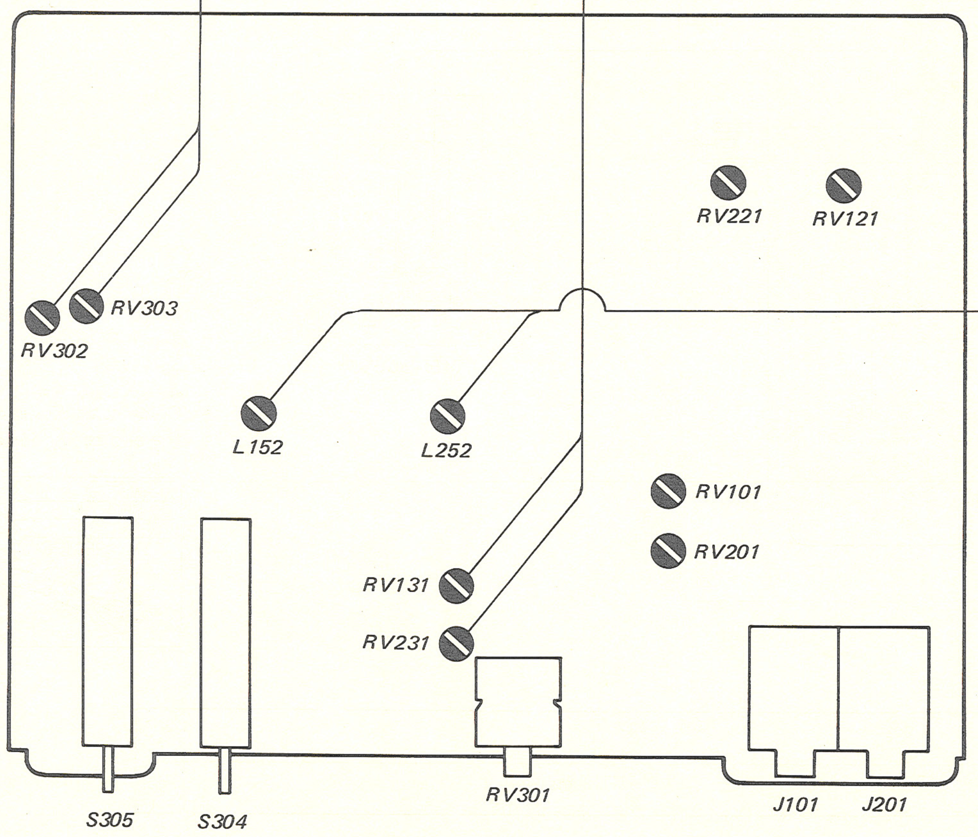
Adjust RV131 (L-CH) and RV231 (R-CH) to obtain 0.25 V (-10 dB) VTVM reading.

Specification:

LINE OUT level: 0.35 – 0.55 V
(-7 – -3 dB)

Adjustment Location:

audio amp board

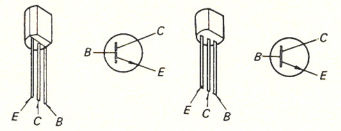

RV221
RV121
RV303
RV302
L152
L252
RV101
RV201
RV131
RV231
RV301
S305
S304
J101
J201

SECTION 4
DIAGRAMS

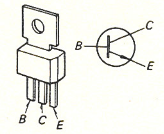
Replacement Semiconductors

For replacement, use semiconductors except in ( ).

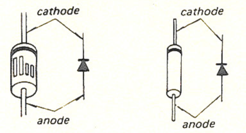
Q101, 102 / Q201, 202: 2SC1362 (2SC900E)


E C B
B C E
E C B
B C E

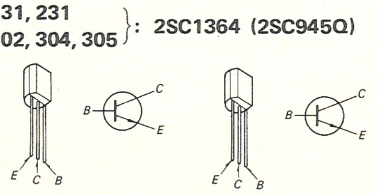
Q301: 2SC1096



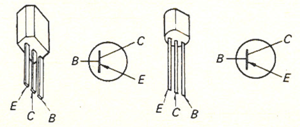
D305: EQB01-22 (RD22EB)


cathode
anode
cathode
anode

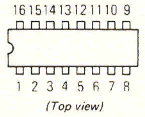
Q131, 231 / Q302, 304, 305: 2SC1364 (2SC945Q)


E C B
B C E
E C B
B C E

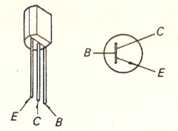
Q303: 2SA678 (2SA733Q)


E C B
B C E
E C B
B C E

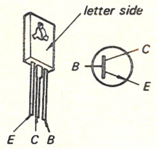
IC151, 251: NE646B


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

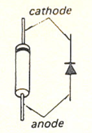
Q121, 221: 2SC2001
Q1001: 2SC1364



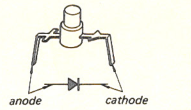
Q1002: 2SD414


letter side
E C B
B C E

D121, 122 / D221, 222: 1T22AM (1S188)
D301–304: 10E2 (10E1)
D307, 308: 1S1555 (1S953)


cathode
anode

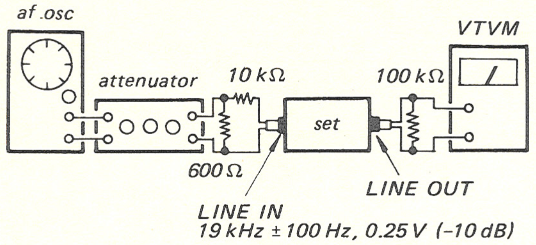
D306: SEL103R (SEL105RC)


anode
cathode

MPX Filter Adjustment

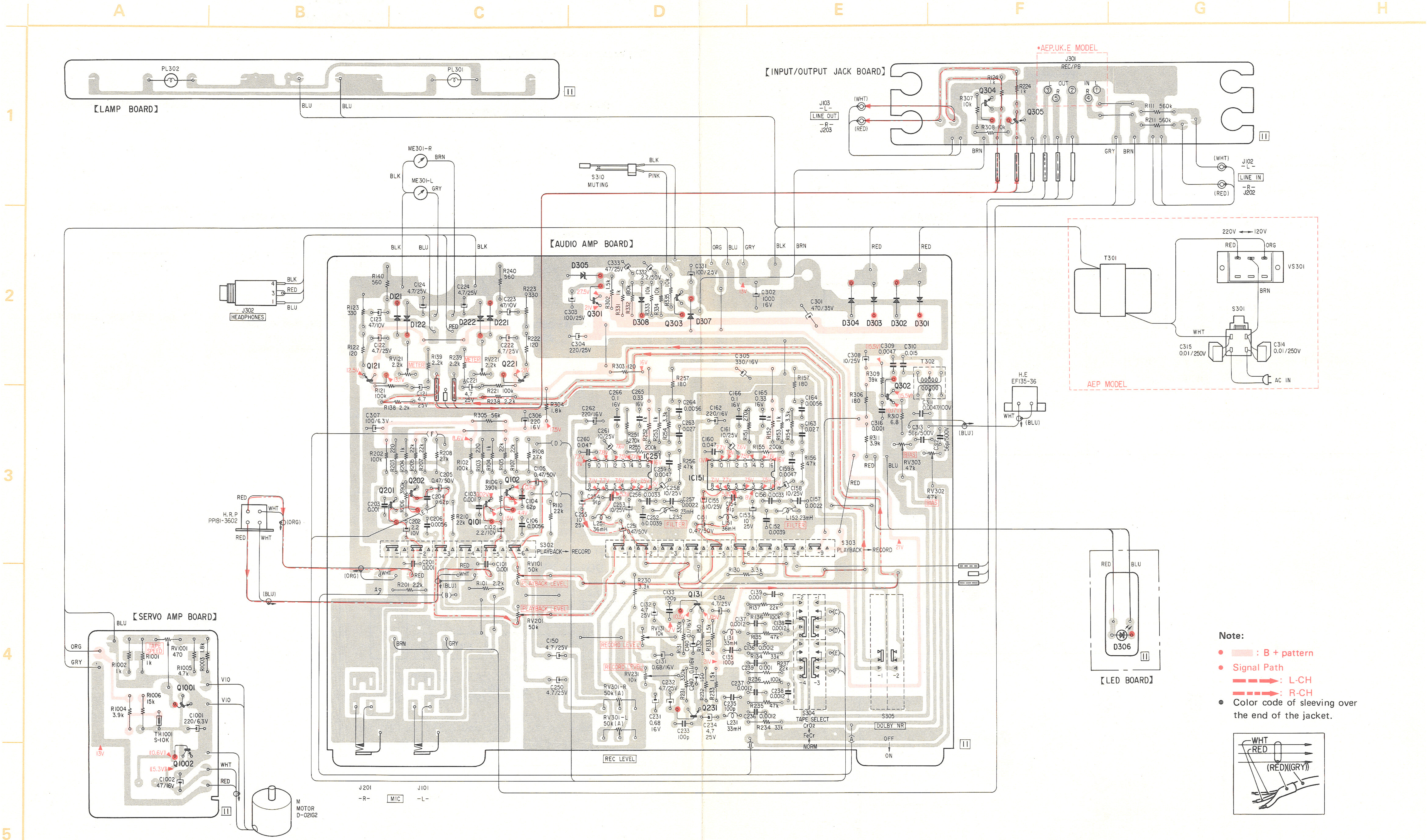
Procedure:

Mode: Standard record (See page 10.)
DOLBY NR switch: ON


af osc
attenuator
10 kΩ
600Ω
set
100 kΩ
VTVM
LINE OUT
LINE IN
19 kHz ± 100 Hz, 0.25 V (-10 dB)

Adjust L152 (L-CH) and L252 (R-CH) for 0.25 V (-10 dB) or less VTVM reading.

4-1. MOUNTING DIAGRAM – *Conductor Side* –

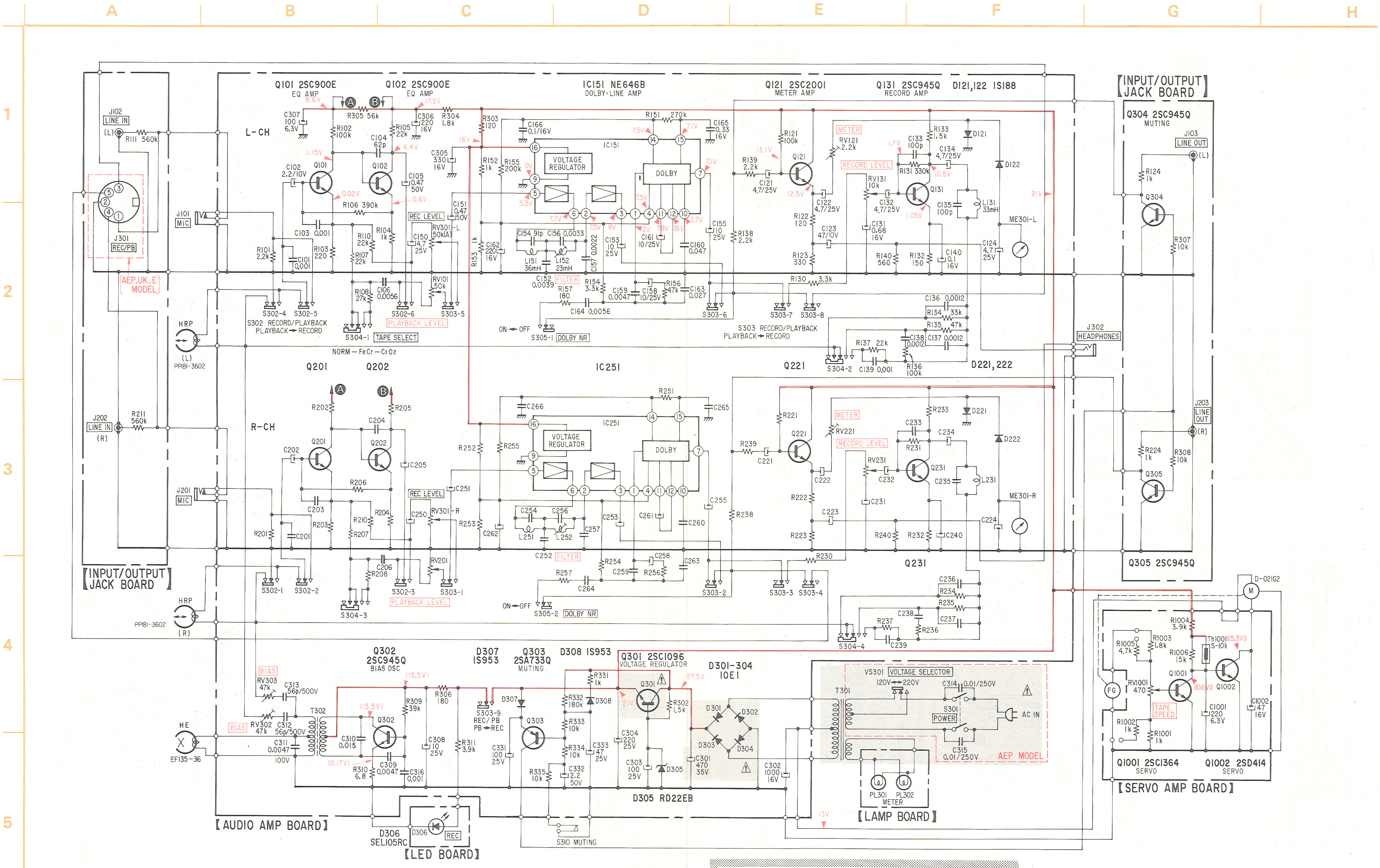

A
B
C
D
E
F
G
H
1
2
3
4
5
【LAMP BOARD】
PL302
PL301
【INPUT/OUTPUT JACK BOARD】
•AEP,UK,E MODEL
J301
REC/PB
J103
LINE OUT
J203
J102
LINE IN
J202
ME301-R
ME301-L
S310
MUTING
【AUDIO AMP BOARD】
J302
HEADPHONES
H.R.P
PP181-3602
T301
VS301
S301
AEP MODEL
220V ⟷ 120V
AC IN
H.E
EF135-36
【SERVO AMP BOARD】
M
MOTOR
D-02162
J201
MIC
J101
【LED BOARD】
D306
S302
PLAYBACK ← RECORD
S303
PLAYBACK ← RECORD
PLAYBACK LEVEL
RECORD LEVEL
REC LEVEL
S304
TAPE SELECT
CrO2
FeCr
NORM
S305
DOLBY NR
OFF
ON
IC251
IC151
Q131
Q231
Q301
Q302
Q303
Q304
Q305
Q101
Q102
Q201
Q202
Q121
Q221
Q1001
Q1002
T302
METER
BIAS
FILTER
TAPE SPEED

Note:

- ▨ : B + pattern
- Signal Path
  - ▬ ▬ ▬▶ : L-CH
  - ▬ ▬ ▬▶ : R-CH
- Color code of sleeving over the end of the jacket.

Q IC	1001, 1002, 121, 201, 202, 101, 102, 301, IC251, 303, 131, 231, IC151, 302, 304, 305	Q IC
D	121,122, 222,221, 305, 308, 307, 304, 303, 302, 301, 306	D

4-2. SCHEMATIC DIAGRAM

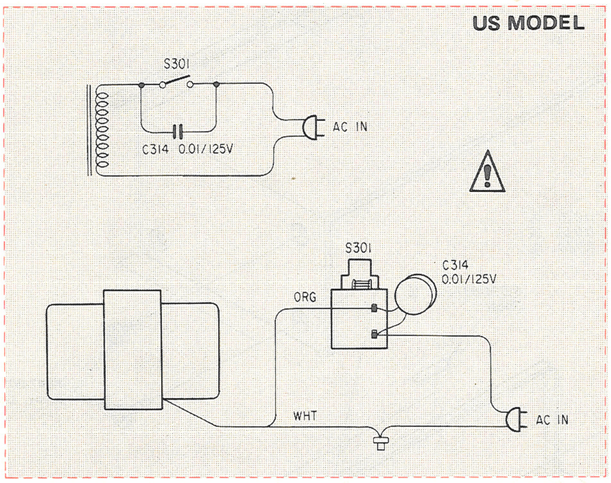

A
B
C
D
E
F
G
H
1
2
3
4
5
Q101 2SC900E
EQ AMP
Q102 2SC900E
EQ AMP
IC151 NE646B
DOLBY·LINE AMP
Q121 2SC2001
METER AMP
Q131 2SC945Q
RECORD AMP
D121,122 1S188
L-CH
R-CH
J102
LINE IN
J101
MIC
J301
REC/PB
(AEP,UK,E MODEL)
J202
LINE IN
J201
MIC
HRP
(L)
PP181-3602
(R)
HE
EF135-36
VOLTAGE REGULATOR
DOLBY
REC LEVEL
PLAYBACK LEVEL
TAPE SELECT
FILTER
DOLBY NR
ON ← OFF
S302 RECORD/PLAYBACK
PLAYBACK → RECORD
S303 RECORD/PLAYBACK
PLAYBACK → RECORD
NORM — FeCr — CrO2
METER
RECORD LEVEL
ME301-L
ME301-R
Q201
Q202
IC251
Q221
Q231
D221,222
[INPUT/OUTPUT JACK BOARD]
Q304 2SC945Q
MUTING
J103
LINE OUT
J302
HEADPHONES
J203
LINE OUT
Q305 2SC945Q
Q302
2SC945Q
BIAS OSC
BIAS
D307
1S953
Q303
2SA733Q
MUTING
D308 1S953
Q301 2SC1096
VOLTAGE REGULATOR
D301-304
10E1
D305 RD22EB
VS301 VOLTAGE SELECTOR
120V ↔ 220V
S301 POWER
AC IN
AEP MODEL
T301
T302
PL301
PL302
METER
[LAMP BOARD]
[AUDIO AMP BOARD]
D306
SEL105RC
REC
[LED BOARD]
S310 MUTING
S303-9
REC/PB
PB → REC
D-02IG2
M
FG
TAPE SPEED
Q1001 2SC1364
SERVO
Q1002 2SD414
SERVO
[SERVO AMP BOARD]

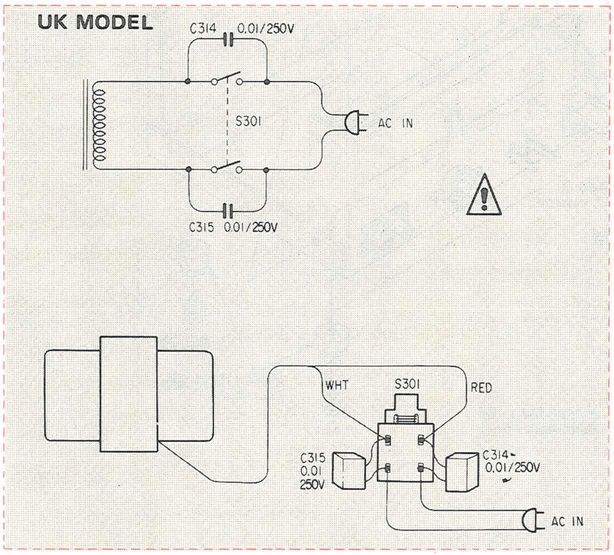
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

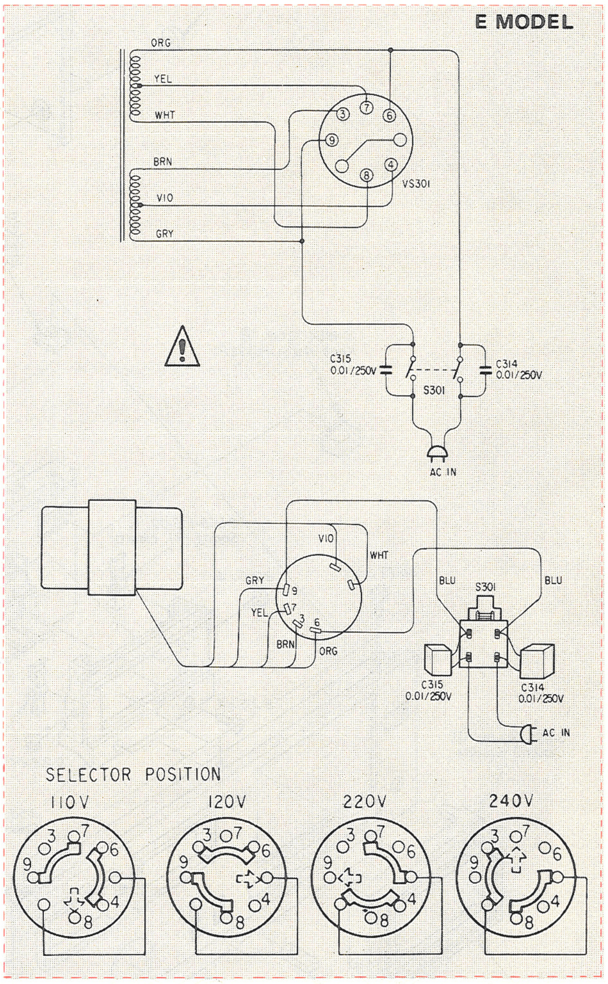
Note:

- All capacitors are in μF unless otherwise noted. pF = $\mu\mu$F 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, ¼W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000 kΩ
- ☐ : panel designation.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken under stop conditions with a VOM (20 kΩ/V).
  (V) : record condition
  ((V)) : forward condition
- ☐ : adjustment for repair.
- ▬ : B+ bus.
- Switch

Ref. No.	Switch	Position
S301	POWER	OFF
S302, 303	RECORD/PLAYBACK	PB
S304	TAPE SELECT	NORM
S305	DOLBY NR	OFF
S310	MUTING	OFF


US MODEL
S301
C314 0.01/125V
AC IN
S301
C314
0.01/125V
ORG
WHT
AC IN


UK MODEL
C314 0.01/250V
S301
AC IN
C315 0.01/250V
WHT
S301
RED
C315
0.01
250V
C314
0.01/250V
AC IN


E MODEL
ORG
YEL
WHT
BRN
VIO
GRY
VS301
C315
0.01/250V
C314
0.01/250V
S301
AC IN
VIO
WHT
GRY
YEL
BRN
ORG
BLU
S301
BLU
C315
0.01/250V
C314
0.01/250V
AC IN
SELECTOR POSITION
110V
120V
220V
240V

SECTION 5
EXPLODED VIEWS

A B C D

5-1. Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted **head**
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

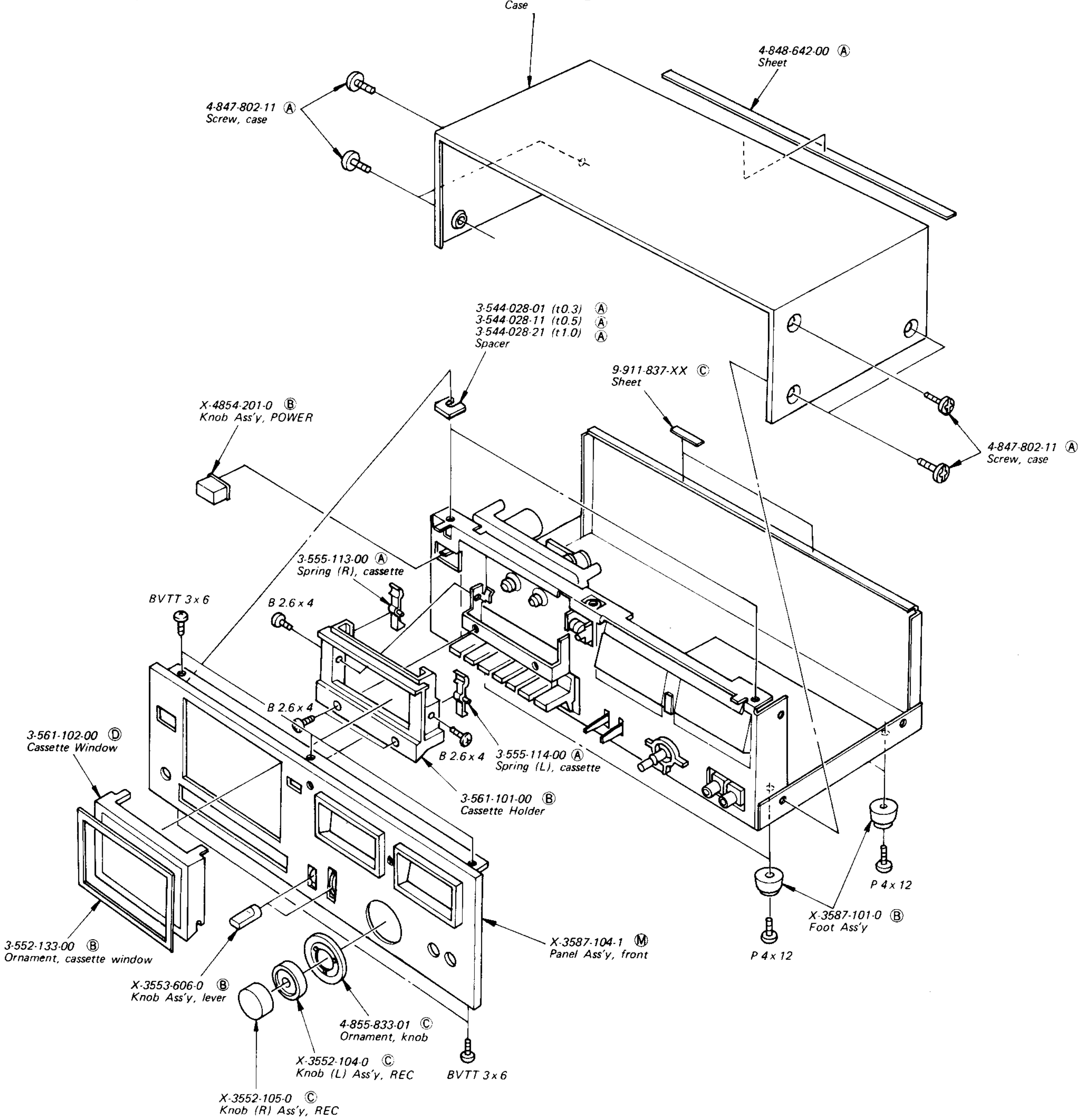
1

2

3

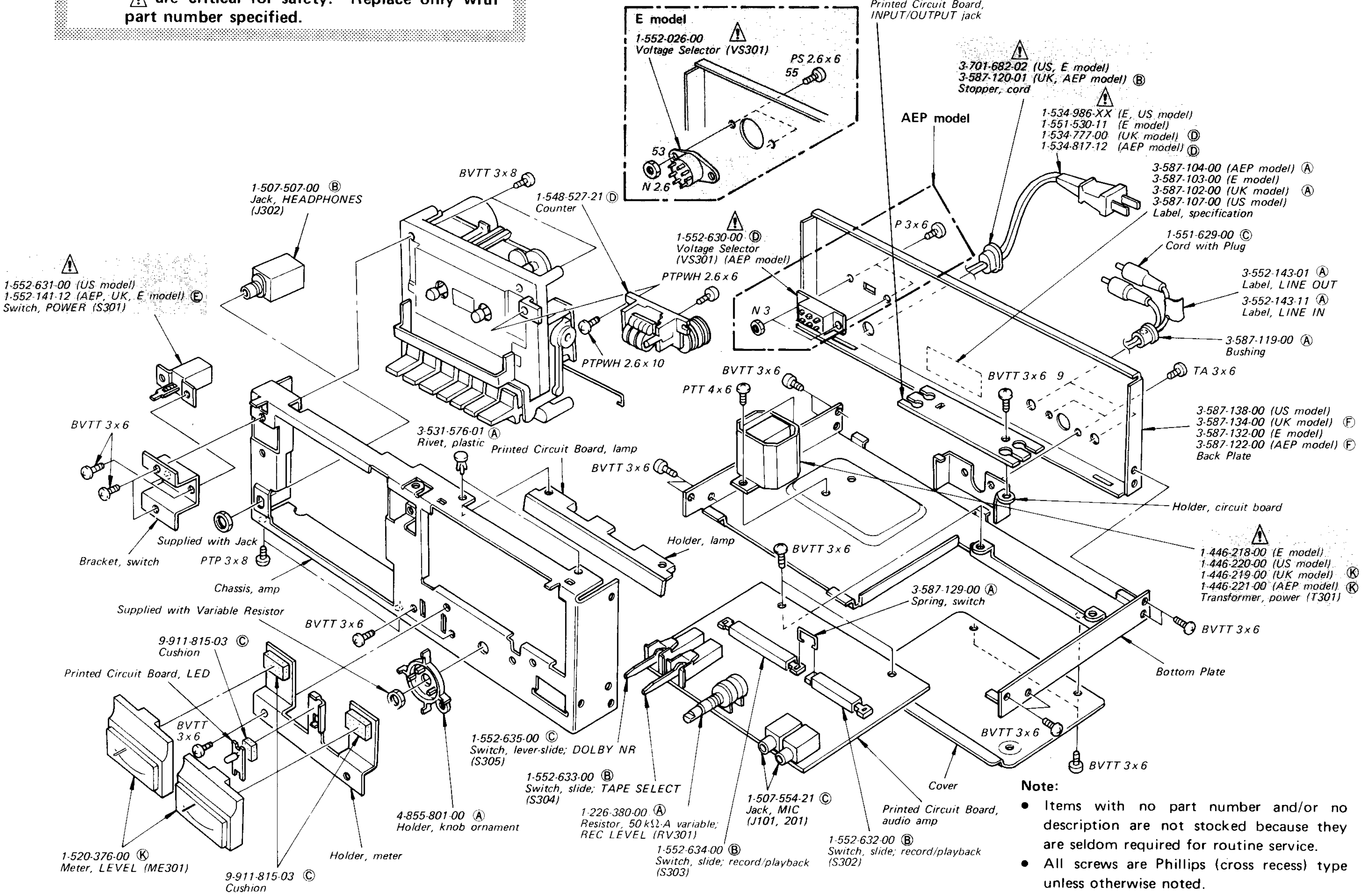
4

5


3-587-121-00 Ⓘ
Case
4-848-642-00 Ⓐ
Sheet
4-847-802-11 Ⓐ
Screw, case
3-544-028-01 (t0.3) Ⓐ
3-544-028-11 (t0.5) Ⓐ
3-544-028-21 (t1.0) Ⓐ
Spacer
9-911-837-XX Ⓒ
Sheet
X-4854-201-0 Ⓑ
Knob Ass'y, POWER
4-847-802-11 Ⓐ
Screw, case
3-555-113-00 Ⓐ
Spring (R), cassette
BVTT 3 x 6
B 2.6 x 4
B 2.6 x 4
3-561-102-00 Ⓓ
Cassette Window
B 2.6 x 4
3-555-114-00 Ⓐ
Spring (L), cassette
3-561-101-00 Ⓑ
Cassette Holder
P 4 x 12
X-3587-101-0 Ⓑ
Foot Ass'y
3-552-133-00 Ⓑ
Ornament, cassette window
X-3587-104-1 Ⓜ
Panel Ass'y, front
P 4 x 12
X-3553-606-0 Ⓑ
Knob Ass'y, lever
4-855-833-01 Ⓒ
Ornament, knob
X-3552-104-0 Ⓒ
Knob (L) Ass'y, REC
BVTT 3 x 6
X-3552-105-0 Ⓒ
Knob (R) Ass'y, REC

5-2.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.


1
2
3
4
E model
1-552-026-00 ⚠
Voltage Selector (VS301)
PS 2.6 x 6
55
53
N 2.6
Printed Circuit Board, INPUT/OUTPUT jack
⚠
3-701-682-02 (US, E model)
3-587-120-01 (UK, AEP model) Ⓑ
Stopper, cord
AEP model
⚠
1-534-986-XX (E, US model)
1-551-530-11 (E model)
1-534-777-00 (UK model) Ⓓ
1-534-817-12 (AEP model) Ⓓ
3-587-104-00 (AEP model) Ⓐ
3-587-103-00 (E model)
3-587-102-00 (UK model) Ⓐ
3-587-107-00 (US model)
Label, specification
1-551-629-00 Ⓒ
Cord with Plug
3-552-143-01 Ⓐ
Label, LINE OUT
3-552-143-11 Ⓐ
Label, LINE IN
3-587-119-00 Ⓐ
Bushing
TA 3 x 6
BVTT 3 x 8
1-507-507-00 Ⓑ
Jack, HEADPHONES (J302)
1-548-527-21 Ⓓ
Counter
⚠
1-552-630-00 Ⓓ
Voltage Selector (VS301) (AEP model)
P 3 x 6
PTPWH 2.6 x 6
N 3
PTPWH 2.6 x 10
⚠
1-552-631-00 (US model)
1-552-141-12 (AEP, UK, E model) Ⓔ
Switch, POWER (S301)
BVTT 3 x 6
PTT 4 x 6
BVTT 3 x 6 9
3-587-138-00 (US model)
3-587-134-00 (UK model) Ⓕ
3-587-132-00 (E model)
3-587-122-00 (AEP model) Ⓕ
Back Plate
BVTT 3 x 6
3-531-576-01 Ⓐ
Rivet, plastic
Printed Circuit Board, lamp
BVTT 3 x 6
Holder, circuit board
⚠
1-446-218-00 (E model)
1-446-220-00 (US model)
1-446-219-00 (UK model) Ⓚ
1-446-221-00 (AEP model) Ⓚ
Transformer, power (T301)
Supplied with Jack
Bracket, switch
PTP 3 x 8
Holder, lamp
BVTT 3 x 6
Chassis, amp
3-587-129-00 Ⓐ
Spring, switch
BVTT 3 x 6
Supplied with Variable Resistor
BVTT 3 x 6
9-911-815-03 Ⓒ
Cushion
Bottom Plate
Printed Circuit Board, LED
BVTT 3 x 6
BVTT 3 x 6
BVTT 3 x 6
1-552-635-00 Ⓒ
Switch, lever-slide; DOLBY NR (S305)
1-552-633-00 Ⓑ
Switch, slide; TAPE SELECT (S304)
Cover
1-507-554-21 Ⓒ
Jack, MIC (J101, 201)
Printed Circuit Board, audio amp
4-855-801-00 Ⓐ
Holder, knob ornament
1-226-380-00 Ⓐ
Resistor, 50 kΩ-A variable; REC LEVEL (RV301)
1-552-632-00 Ⓑ
Switch, slide; record/playback (S302)
1-552-634-00 Ⓑ
Switch, slide; record/playback (S303)
1-520-376-00 Ⓚ
Meter, LEVEL (ME301)
Holder, meter
9-911-815-03 Ⓒ
Cushion

Note:

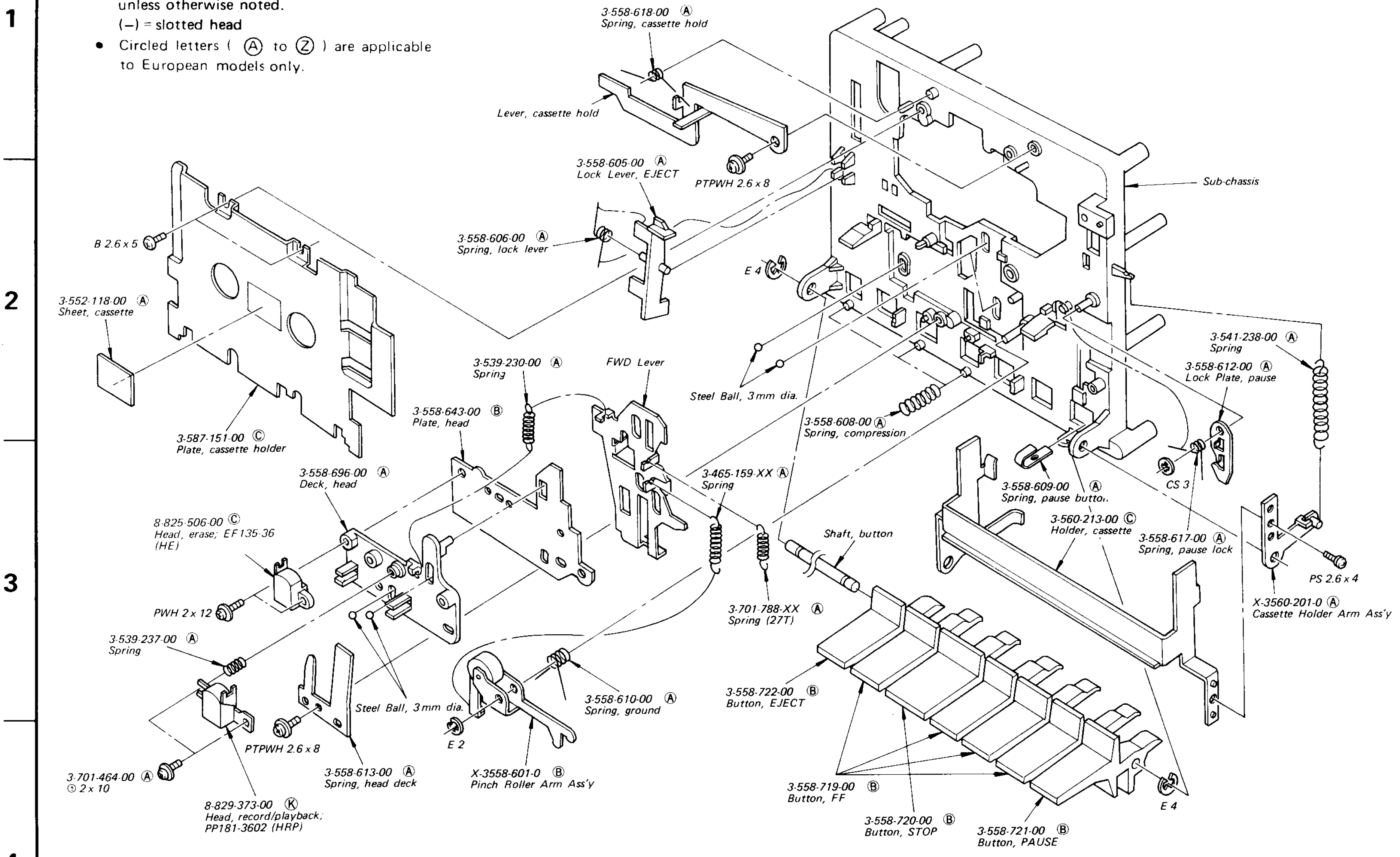
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

to European models only.

A	B	C	D	E

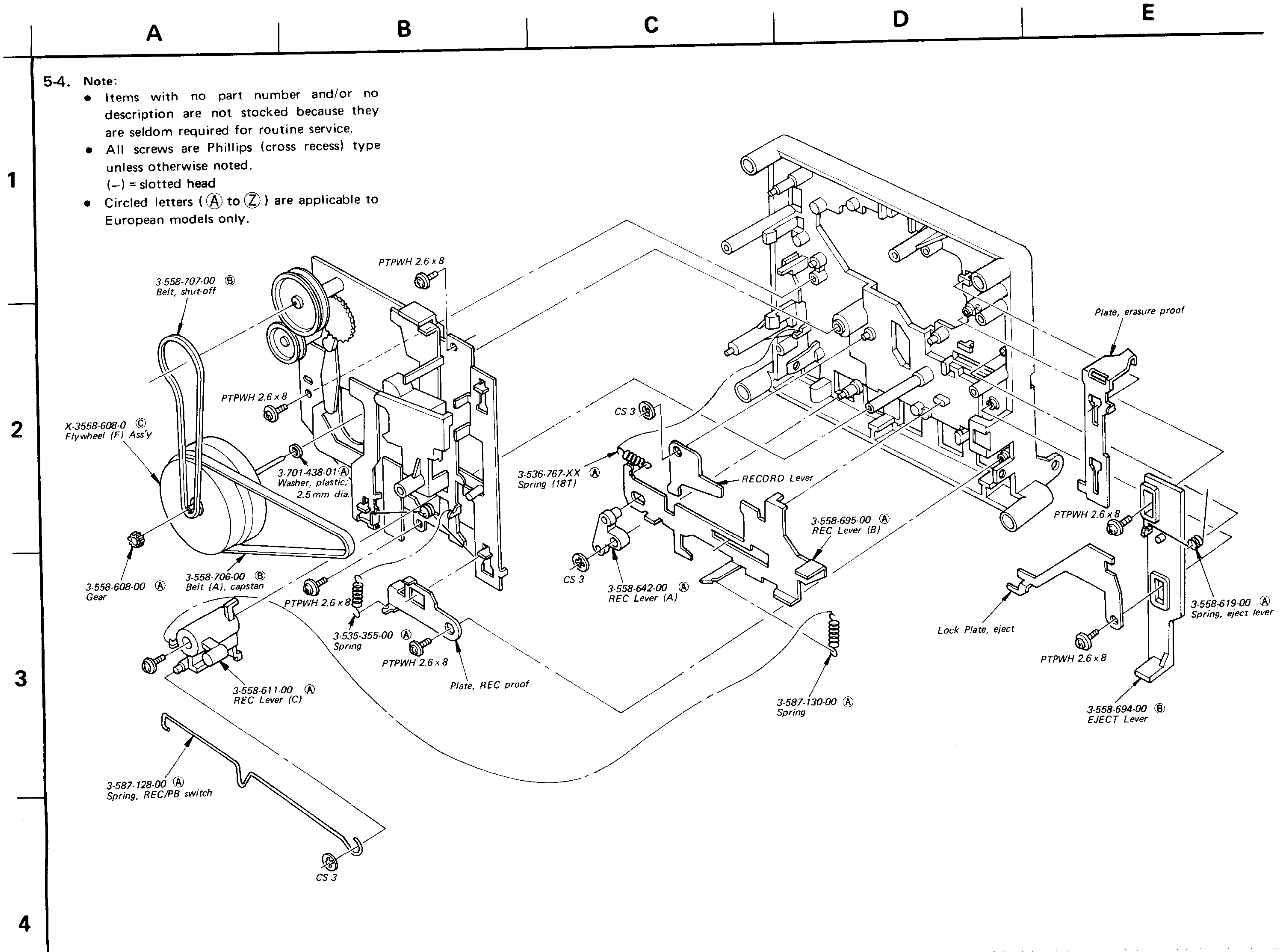
5-3. Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


1
2
3
4
3-558-618-00 Ⓐ
Spring, cassette hold
Lever, cassette hold
3-558-605-00 Ⓐ
Lock Lever, EJECT
PTPWH 2.6 x 8
Sub-chassis
B 2.6 x 5
3-558-606-00 Ⓐ
Spring, lock lever
E 4
3-552-118-00 Ⓐ
Sheet, cassette
3-541-238-00 Ⓐ
Spring
3-539-230-00 Ⓐ
Spring
FWD Lever
3-558-612-00 Ⓐ
Lock Plate, pause
Steel Ball, 3 mm dia.
3-558-643-00 Ⓑ
Plate, head
3-558-608-00 Ⓐ
Spring, compression
3-587-151-00 Ⓒ
Plate, cassette holder
3-558-696-00 Ⓐ
Deck, head
3-465-159-XX Ⓐ
Spring
3-558-609-00 Ⓐ
Spring, pause button
CS 3
3-560-213-00 Ⓒ
Holder, cassette
8-825-506-00 Ⓒ
Head, erase; EF135-36
(HE)
Shaft, button
3-558-617-00 Ⓐ
Spring, pause lock
PS 2.6 x 4
PWH 2 x 12
3-701-788-XX Ⓐ
Spring (27T)
X-3560-201-0 Ⓐ
Cassette Holder Arm Ass'y
3-539-237-00 Ⓐ
Spring
3-558-722-00 Ⓑ
Button, EJECT
Steel Ball, 3 mm dia.
3-558-610-00 Ⓐ
Spring, ground
PTPWH 2.6 x 8
E 2
3-558-613-00 Ⓐ
Spring, head deck
X-3558-601-0 Ⓑ
Pinch Roller Arm Ass'y
3-701-464-00 Ⓐ
(–) 2 x 10
3-558-719-00 Ⓑ
Button, FF
E 4
8-829-373-00 Ⓚ
Head, record/playback;
PP181-3602 (HRP)
3-558-720-00 Ⓑ
Button, STOP
3-558-721-00 Ⓑ
Button, PAUSE

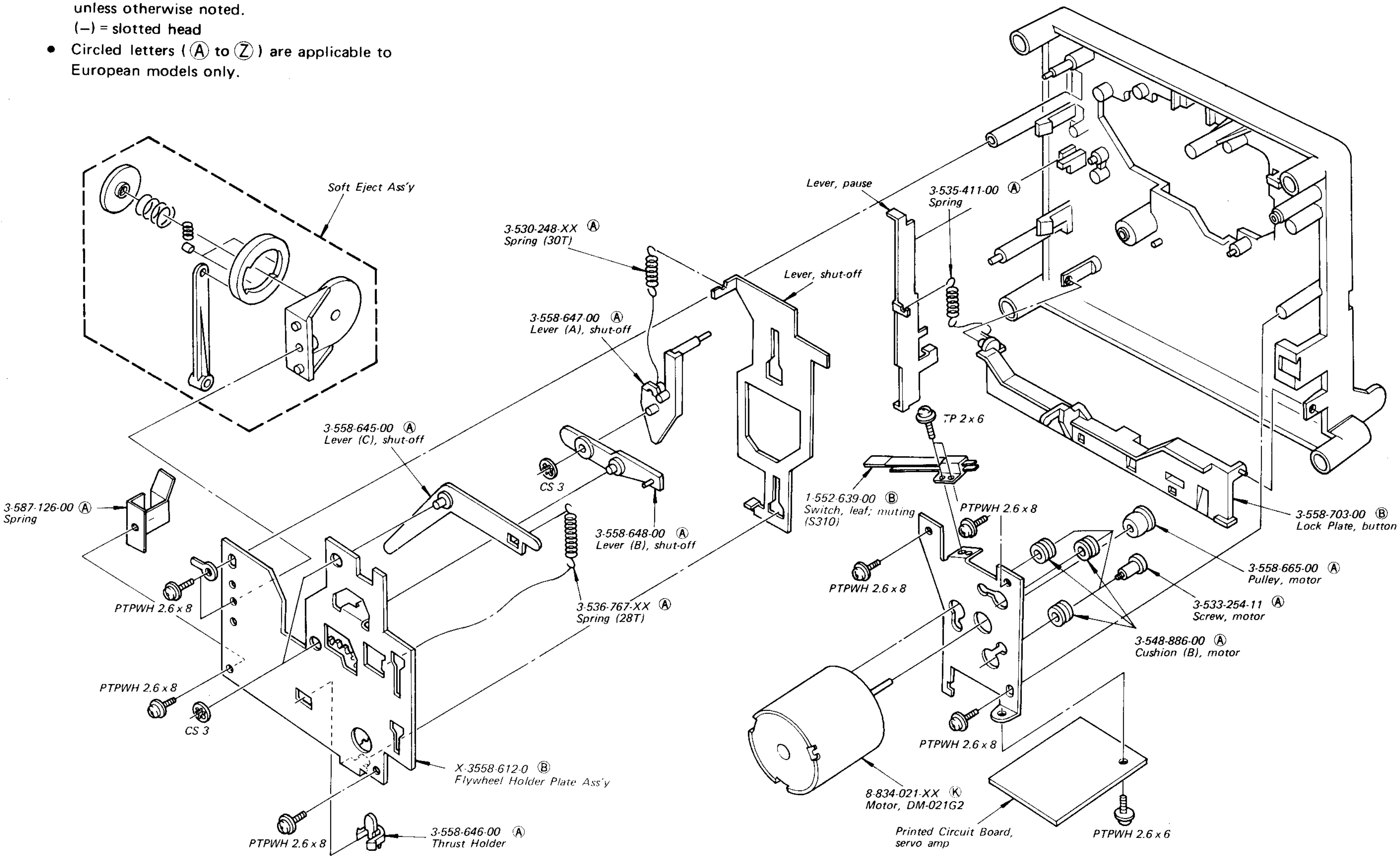
5-4. Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


A
B
C
D
E
1
2
3
4
PTPWH 2.6 x 8
3-558-707-00 Ⓑ
Belt, shut-off
PTPWH 2.6 x 8
X-3558-608-0 Ⓒ
Flywheel (F) Ass'y
3-701-438-01 Ⓐ
Washer, plastic;
2.5 mm dia.
3-558-608-00 Ⓐ
Gear
3-558-706-00 Ⓑ
Belt (A), capstan
PTPWH 2.6 x 8
3-535-355-00 Ⓐ
Spring
PTPWH 2.6 x 8
Plate, REC proof
3-558-611-00 Ⓐ
REC Lever (C)
3-587-128-00 Ⓐ
Spring, REC/PB switch
CS 3
CS 3
3-536-767-XX Ⓐ
Spring (18T)
RECORD Lever
3-558-695-00 Ⓐ
REC Lever (B)
CS 3
3-558-642-00 Ⓐ
REC Lever (A)
3-587-130-00 Ⓐ
Spring
Plate, erasure proof
PTPWH 2.6 x 8
3-558-619-00 Ⓐ
Spring, eject lever
Lock Plate, eject
PTPWH 2.6 x 8
3-558-694-00 Ⓑ
EJECT Lever

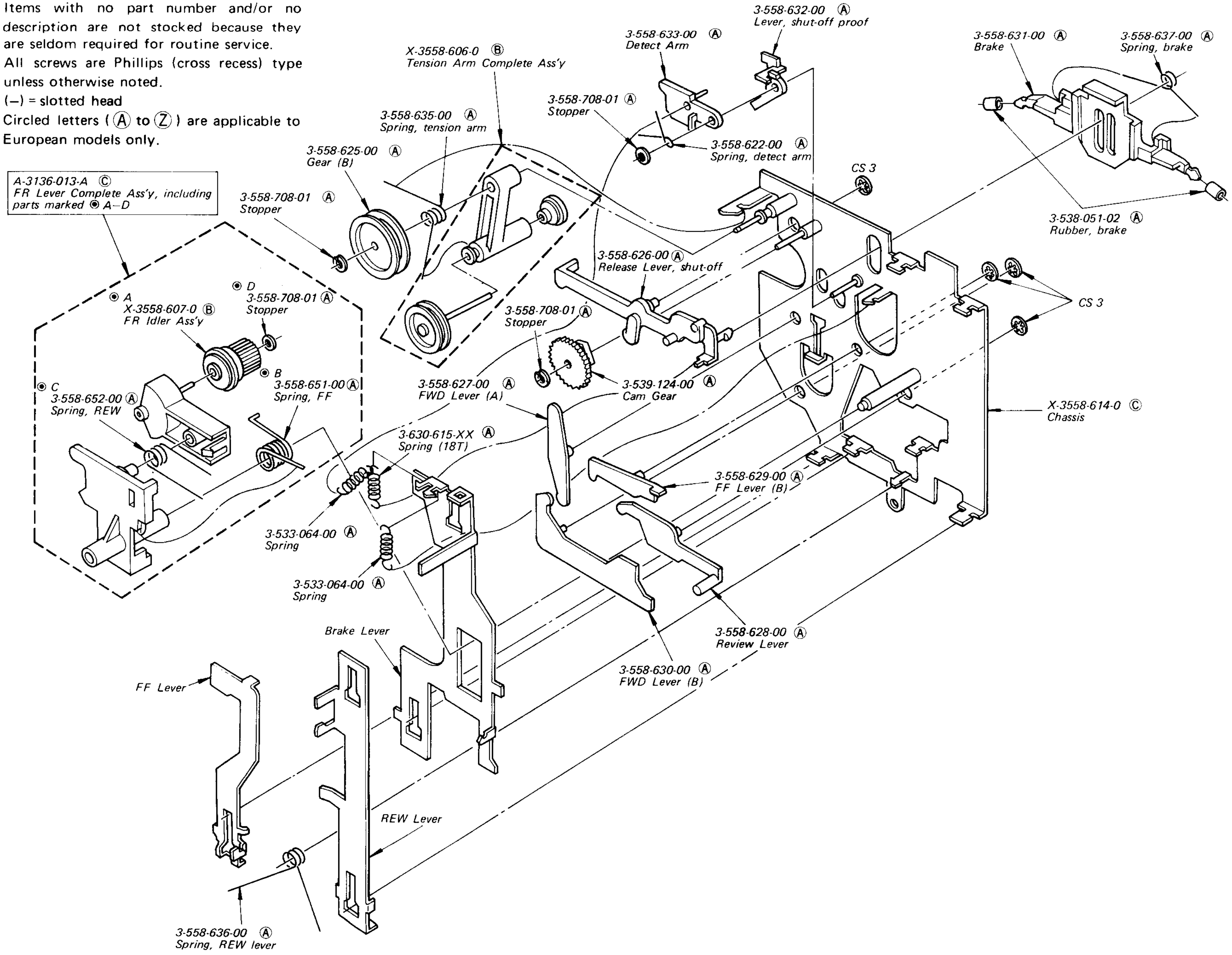
5-5. Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


Soft Eject Ass'y
3-530-248-XX Ⓐ
Spring (30T)
Lever, pause
3-535-411-00 Ⓐ
Spring
Lever, shut-off
3-558-647-00 Ⓐ
Lever (A), shut-off
TP 2 x 6
3-558-645-00 Ⓐ
Lever (C), shut-off
CS 3
1-552-639-00 Ⓑ
Switch, leaf; muting
(S310)
PTPWH 2.6 x 8
3-558-703-00 Ⓑ
Lock Plate, button
3-587-126-00 Ⓐ
Spring
3-558-648-00 Ⓐ
Lever (B), shut-off
PTPWH 2.6 x 8
3-558-665-00 Ⓐ
Pulley, motor
PTPWH 2.6 x 8
3-536-767-XX Ⓐ
Spring (28T)
3-533-254-11 Ⓐ
Screw, motor
3-548-886-00 Ⓐ
Cushion (B), motor
PTPWH 2.6 x 8
CS 3
PTPWH 2.6 x 8
X-3558-612-0 Ⓑ
Flywheel Holder Plate Ass'y
8-834-021-XX Ⓚ
Motor, DM-021G2
PTPWH 2.6 x 8
3-558-646-00 Ⓐ
Thrust Holder
Printed Circuit Board,
servo amp
PTPWH 2.6 x 6

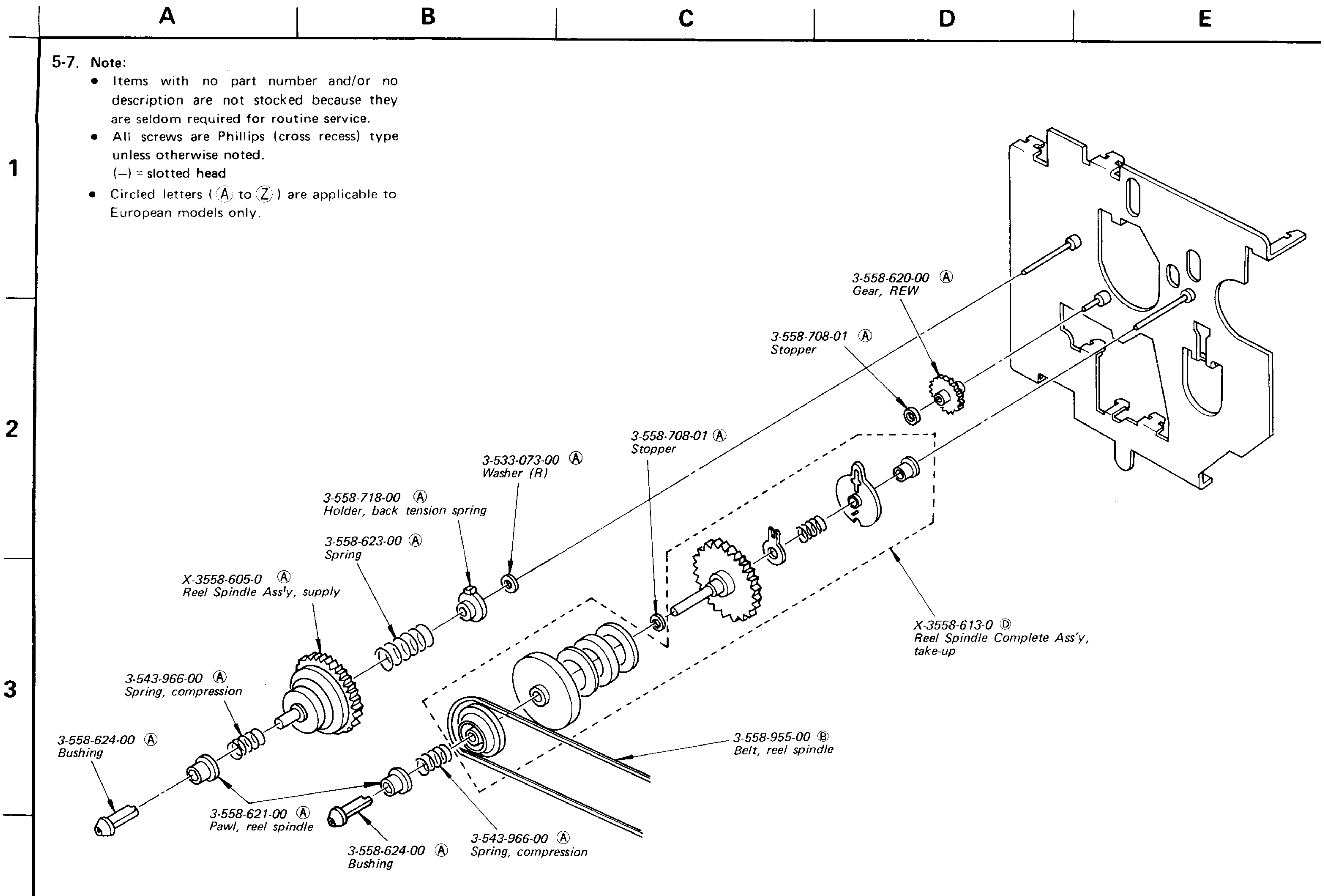
5-6. Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted. (–) = slotted head
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


3-558-632-00 Ⓐ
Lever, shut-off proof
3-558-633-00 Ⓐ
Detect Arm
X-3558-606-0 Ⓑ
Tension Arm Complete Ass'y
3-558-631-00 Ⓐ
Brake
3-558-637-00 Ⓐ
Spring, brake
3-558-708-01 Ⓐ
Stopper
3-558-635-00 Ⓐ
Spring, tension arm
3-558-622-00 Ⓐ
Spring, detect arm
3-558-625-00 Ⓐ
Gear (B)
CS 3
A-3136-013-A Ⓒ
FR Lever Complete Ass'y, including parts marked ◉ A–D
3-558-708-01 Ⓐ
Stopper
3-538-051-02 Ⓐ
Rubber, brake
3-558-626-00 Ⓐ
Release Lever, shut-off
◉ D
3-558-708-01 Ⓐ
Stopper
◉ A
X-3558-607-0 Ⓑ
FR Idler Ass'y
3-558-708-01 Ⓐ
Stopper
CS 3
◉ B
3-558-651-00 Ⓐ
Spring, FF
◉ C
3-558-652-00 Ⓐ
Spring, REW
3-558-627-00 Ⓐ
FWD Lever (A)
3-539-124-00 Ⓐ
Cam Gear
X-3558-614-0 Ⓒ
Chassis
3-630-615-XX Ⓐ
Spring (18T)
3-558-629-00 Ⓐ
FF Lever (B)
3-533-064-00 Ⓐ
Spring
3-533-064-00 Ⓐ
Spring
Brake Lever
3-558-628-00 Ⓐ
Review Lever
3-558-630-00 Ⓐ
FWD Lever (B)
FF Lever
REW Lever
3-558-636-00 Ⓐ
Spring, REW lever

5-7. **Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (–) = slotted **head**
- Circled letters (Ⓐ to Ⓩ) are applicable to European models only.


A
B
C
D
E
1
2
3
4
3-558-620-00 Ⓐ
Gear, REW
3-558-708-01 Ⓐ
Stopper
3-558-708-01 Ⓐ
Stopper
3-533-073-00 Ⓐ
Washer (R)
3-558-718-00 Ⓐ
Holder, back tension spring
3-558-623-00 Ⓐ
Spring
X-3558-605-0 Ⓐ
Reel Spindle Ass'y, supply
3-543-966-00 Ⓐ
Spring, compression
3-558-624-00 Ⓐ
Bushing
3-558-621-00 Ⓐ
Pawl, reel spindle
3-558-624-00 Ⓐ
Bushing
3-543-966-00 Ⓐ
Spring, compression
3-558-955-00 Ⓑ
Belt, reel spindle
X-3558-613-0 Ⓓ
Reel Spindle Complete Ass'y, take-up

SECTION 6
ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

SEMICONDUCTORS

Transistors

Ref. No.	*Part No.*		*Description*
⇒ Q101,201 ⇒ Q102,202	8-729-665-47	Ⓑ	2SC1362
Q121,221	8-729-100-13	Ⓑ	2SC2001
⇒ Q131,231	8-729-663-47	Ⓑ	2SC1364
Q301	⚠ 9-919-380-00	Ⓒ	2SC1096
⇒ Q302	8-729-663-47	Ⓑ	2SC1364
⇒ Q303	8-727-788-00	Ⓑ	2SA678
⇒ Q304,305	8-729-663-47	Ⓑ	2SC1364
Q1001	8-729-663-47	Ⓑ	2SC1364
Q1002	8-729-141-43	Ⓑ	2SD414

ICs

Ref. No.	*Part No.*		*Description*
IC151,251	8-759-906-46		NE646B

Diodes

Ref. No.	*Part No.*		*Description*
⇒ D121,221 ⇒ D122,222	8-719-422-21	Ⓐ	1T22AM
⇒ D301–304	⚠ 8-719-200-02	Ⓑ	10E2
⇒ D305	8-719-931-22	Ⓑ	EQB01-22
⇒ D306	8-701-301-03	Ⓑ	SEL103R
⇒ D307,308	8-719-815-55	Ⓐ	1S1555

COILS

Ref. No.	*Part No.*		*Description*
L131,231	1-408-155-00	Ⓑ	33 mH, microinductor
L151,251	1-408-157-00	Ⓑ	36 mH, microinductor
L152,252	1-408-156-00	Ⓑ	23 mH, microinductor

TRANSFORMERS

Ref. No.	*Part No.*		*Description*
T301 ⚠	1-446-218-00		Power (E1, E2 model)
	1-446-219-00	Ⓚ	Power (UK model)
	1-446-220-00		Power (US model)
	1-446-221-00	Ⓚ	Power (AEP model)
T302	1-405-823-00	Ⓑ	Oscillator

⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

CAPACITORS

All capacitors are in μF and ceramic unless otherwise noted.
50WV or less are not indicated except for electrolytics and tantalum.
p: μμF, elect = electrolytic

Ref. No.	*Part No.*		*Description*		
C101,201	1-102-074-11	Ⓐ	0.001		
C102,202	1-131-459-11	Ⓐ	2.2	10V	tantalum
C103,203	1-102-074-11	Ⓐ	0.001		
C104,204	1-101-886-11	Ⓐ	62p		
C105,205	1-121-726-11	Ⓐ	0.47	50V	elect
C106,206	1-108-573-12	Ⓐ	0.0056		mylar
C121,221 C122,222	1-121-395-11	Ⓐ	4.7	25V	elect
C123,223	1-121-352-11	Ⓐ	47	6.3V	elect
C124,224	1-121-395-11	Ⓐ	4.7	25V	elect
C131,231	1-131-456-11	Ⓐ	0.68	16V	tantalum
C132,232	1-121-395-11	Ⓐ	4.7	25V	elect
C133,233	1-102-973-11	Ⓐ	100p		
C134,234	1-121-395-11	Ⓐ	4.7	25V	elect
C135,235	1-102-973-11	Ⓐ	100p		
C136–138 C236–238	1-108-351-12	Ⓐ	0.0012		mylar
C139,239	1-108-221-12	Ⓐ	0.001		mylar
C140,240	1-131-451-11	Ⓐ	0.1	16V	tantalum
C150,250	1-121-395-11	Ⓐ	4.7	25V	elect
C151,251	1-121-726-11	Ⓐ	0.47	50V	elect
C152,252	1-108-354-12	Ⓐ	0.0039		mylar
C153,253	1-121-398-11	Ⓐ	10	25V	elect
C154,254	1-102-972-11	Ⓐ	91p		
C155,255	1-121-398-11	Ⓐ	10	25V	elect
C156,256	1-108-232-12	Ⓐ	0.0033		mylar
C157,257	1-108-230-12	Ⓐ	0.0022		mylar
C158,258	1-121-398-11	Ⓐ	10	25V	elect
C159,259	1-108-234-12	Ⓐ	0.0047		mylar
C160,260	1-108-246-12	Ⓐ	0.047		mylar
C161,261	1-121-398-11	Ⓐ	10	25V	elect
C162,262	1-121-421-11	Ⓑ	220	16V	elect
C163,263	1-108-359-12	Ⓐ	0.027		mylar
C164,264	1-108-355-12	Ⓐ	0.0056		mylar

Note: Circled letters (Ⓐ to Ⓩ) are applicable to European models only.

Ref. No.	*Part No.*	*Description*
C165,265	1-131-454-11	Ⓐ 0.33 16V tantalum
C166,266	1-131-451-11	Ⓐ 0.1 16V tantalum
C301	⚠ 1-121-361-11	Ⓑ 470 35V elect
C302	1-121-245-11	Ⓑ 1000 16V elect
C303	1-121-416-11	Ⓑ 100 25V elect
C304	1-121-422-11	Ⓑ 220 25V elect
C305	1-121-521-11	Ⓑ 330 16V elect
C306	1-121-421-11	Ⓑ 220 16V elect
C307	1-121-413-11	Ⓐ 100 6.3V elect
C308	1-121-398-11	Ⓐ 10 25V elect
C309	1-108-234-12	Ⓐ 0.0047 mylar
C310	1-108-240-12	Ⓐ 0.015 mylar
C311	1-108-373-12	Ⓐ 0.0047 100V mylar
C312,313	1-107-165-11	Ⓐ 56p 500V silvered mica
C314	⚠ 1-130-151-11	Ⓑ 0.01 125V (US model)
C314.315	⚠ 1-130-196-11	Ⓓ 0.01 250V polyethylene (AEP, UK, E model)
C316	1-108-221-12	Ⓐ 0.001 mylar
C331	1-121-416-11	Ⓑ 100 25V elect
C332	1-121-450-11	Ⓐ 2.2 50V elect
C333	1-121-410-11	Ⓑ 47 25V elect
C1001	1-121-419-11	Ⓑ 220 6.3V elect
C1002	1-121-409-11	Ⓐ 47 16V elect

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted. Refer to the list on page 7 for their part numbers.

RV101,201	1-226-238-00	Ⓐ 47k (B), adjustable; playback level
RV121,221	1-226-234-00	Ⓐ 2.2k (B), adjustable; METER
RV131,231	1-226-236-00	Ⓐ 10k (B), adjustable; REC LEVEL
RV301	1-226-380-00	Ⓐ 50k (A), variable; REC LEVEL
RV302,303	1-226-238-00	Ⓐ 47k (B), adjustable; BIAS
RV1001	1-224-641-XX	Ⓑ 470 (B), adjustable; TAPE SPEED

SWITCHES

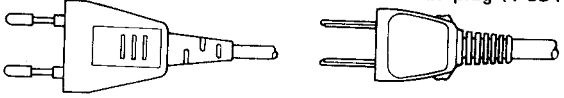
Ref. No.	*Part No.*	*Description*
S301	⚠ 1-552-141-12	Ⓔ Push, POWER (AEP, UK, E model)
S301	⚠ 1-552-631-00	Push, POWER (US model)
S302	1-552-632-00	Ⓑ Slide, record/playback
S303	1-552-634-00	Ⓑ Slide, record/playback
S304	1-552-633-00	Ⓒ Lever-slide, TAPE SELECT
S305	1-552-635-00	Ⓒ Lever-slide, DOLBY NR
S310	1-552-639-00	Ⓑ Leaf, muting

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

MISCELLANEOUS

HE	8-825-506-00	Ⓒ Head, erase; EF135-36
HRP	8-829-373-00	Ⓚ Head, record/playback; PP181-3602
J101,201	1-507-554-21	Ⓒ Jack, MIC
J301	1-507-618-00	Ⓐ Connector, REC/PB (AEP, UK, E model)
J302	1-507-507-00	Ⓑ Jack, HEADPHONES
M	8-834-021-XX	Ⓚ Motor, D-021G2
ME301	8-834-377-00	Ⓚ Meter, LEVEL
PL301,302	1-518-351-00	Ⓑ Lamp
VS301	⚠ 1-552-026-00	Ⓔ Voltage Selector (E model)
VS301	⚠ 1-552-630-00	Ⓓ Voltage Selector (AEP model)
	⚠ 1-534-777-00	Ⓓ Cord, power (UK model)
	⚠ 1-534-817-XX	Ⓔ Cord, power (AEP model)
	⚠ 1-534-986-XX	Cord, power; parallel blade plug (US, E model)
	⚠ 1-551-530-11	Cord, power; euro-plug (E model)
	1-551-629-00	Cord with Plug

– Power Cord –



Euro-plug (1-551-530-11)

Parallel-blade plug (1-534-986-XX)

ACCESSORIES & PACKING MATERIALS

Part No.	*Description*
X-3701-105-0	Ⓐ Tips Ass'y, head cleaning
3-587-101-00	Ⓑ Cushion
3-587-112-00	Carton (US model)
3-587-113-00	Ⓓ Carton (AEP, UK, E model)
3-701-630-00	Ⓐ Bag, polyethylene
3-770-602-11	Ⓓ Manual, instruction (AEP, UK, E model)
3-770-602-21	Manual, instruction (US model)
4-855-809-00	Ⓑ Bag, polyethylene

Sony Corporation

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STEREO CASSETTE DECK

TC-K1A

US Model
AEP Model
UK Model
E Model

CORRECTION

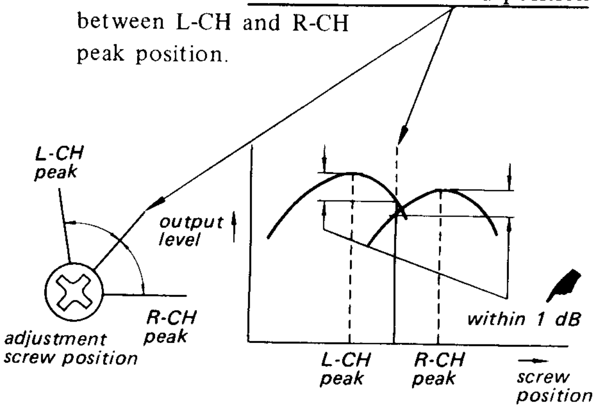
Subject: ELECTRICAL ADJUSTMENT

No.1
October , 1978

☛ :CORRECTED PORTION

Page 11

2. Turn the adjustment screw for the maximum level and set it to the mechanical mid position between L-CH and R-CH peak position.

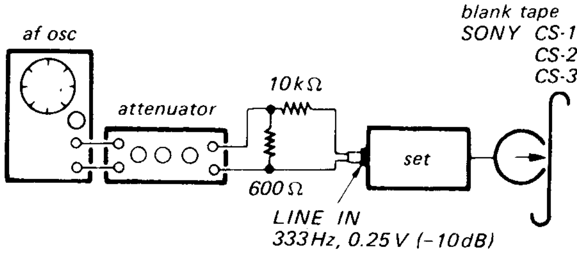

L-CH peak
output level
R-CH peak
adjustment screw position
within 1 dB
L-CH peak
R-CH peak
screw position

Page 13

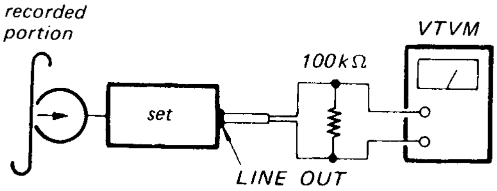
Record Level Adjustment

Procedure:

1. Mode: Standard record (See page 10.)


af osc
attenuator
10kΩ
600Ω
set
blank tape
SONY CS-10
CS-20
CS-30
LINE IN
333Hz, 0.25 V (-10dB)

2. Mode: Playback


recorded portion
set
100kΩ
VTVM
LINE OUT

☛ Adjust RV131 (L-CH) and RV231 (R-CH) to obtain the VTVM reading specified below.

Specification:

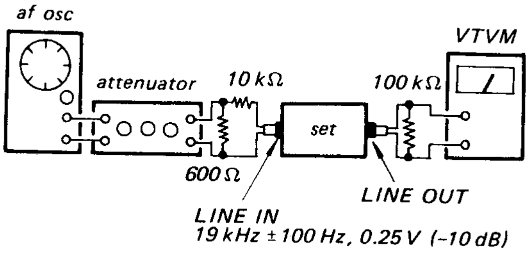
LINE OUT level: 0.35 – 0.55 V
(-7 – -3 dB)

Page 14

MPX Filter Adjustment

Procedure:

Mode: Standard record (See page 10.)
DOLBY NR switch: ON


af osc
attenuator
10kΩ
600Ω
set
100kΩ
VTVM
LINE IN
19 kHz ± 100 Hz, 0.25 V (-10 dB)
LINE OUT

☛ Adjust L152 (L-CH) and L252 (R-CH) for minimum reading.

SONY®
SERVICE MANUAL

Sony Corporation

© 1978

9-954-679-91

78J06104-1
Printed in Japan

STEREO CASSETTE DECK

TC-K1A

US Model
AEP Model
UK Model
E Model

CORRECTION

Subject: Part Number Correction

No. 2
June, 1980

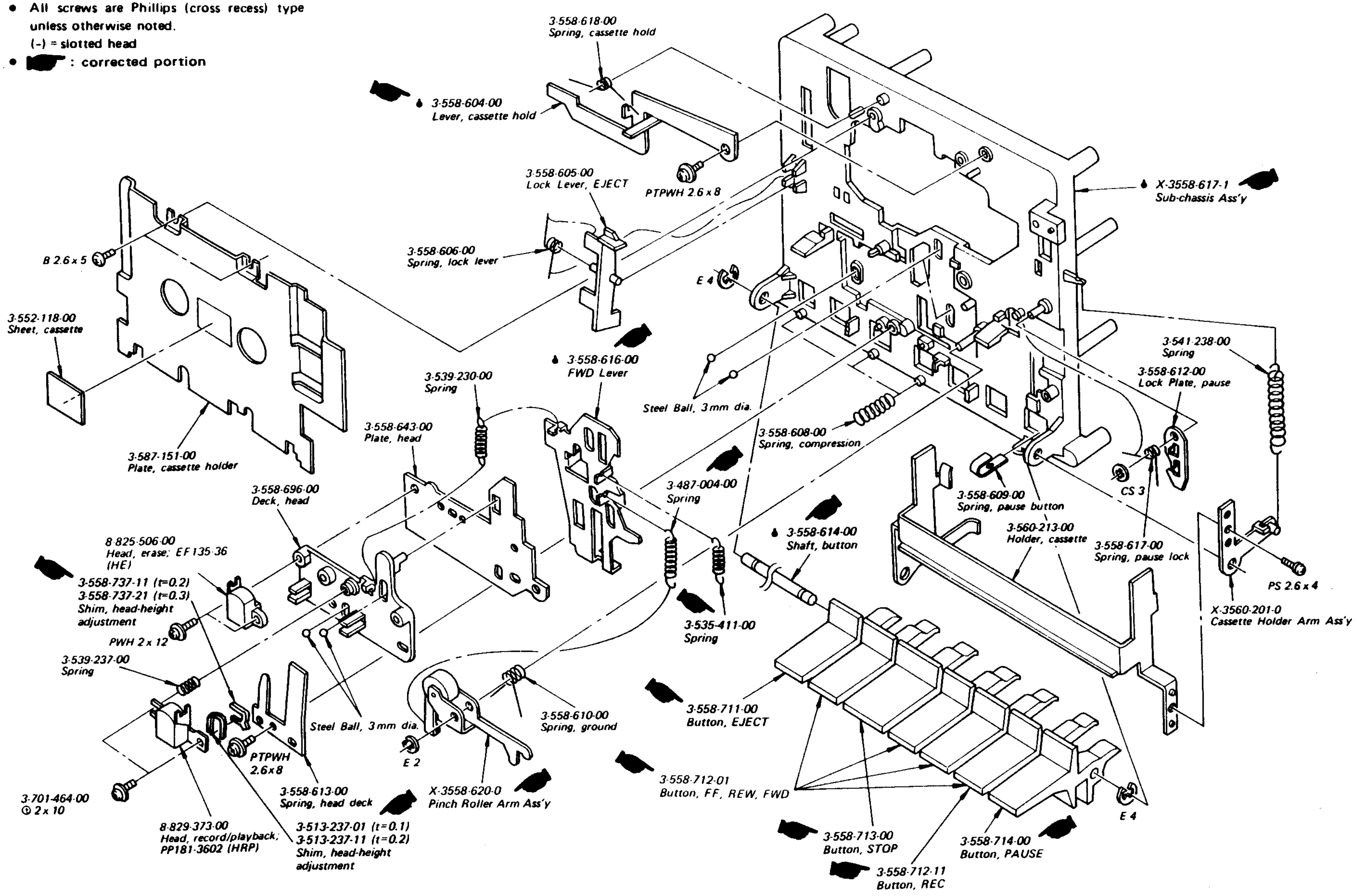
Some part numbers in the exploded views are incorrectly shown. Please file this correction with the TC-K1A service manual.

SONY
SERVICE MANUAL

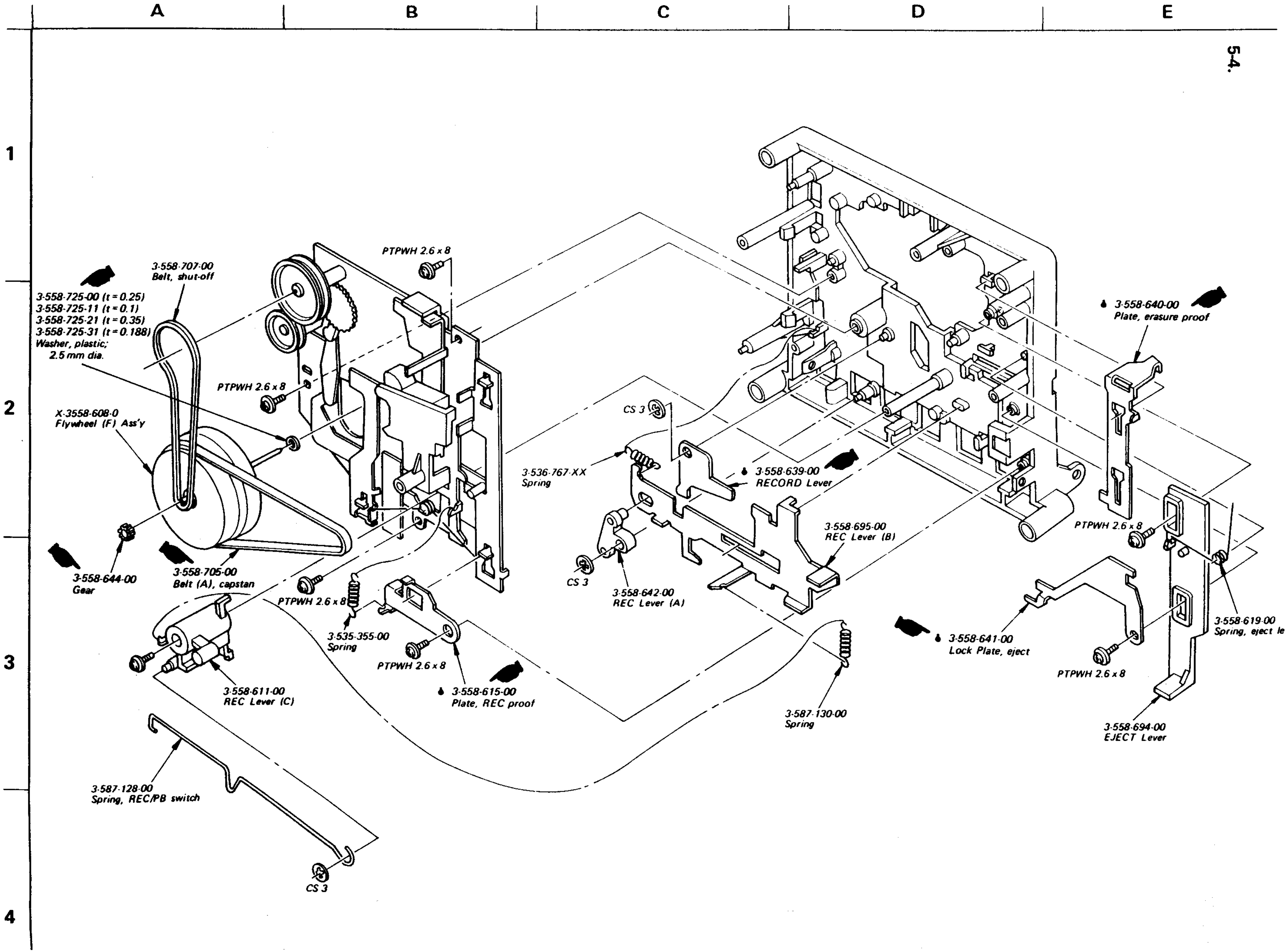
5-3.

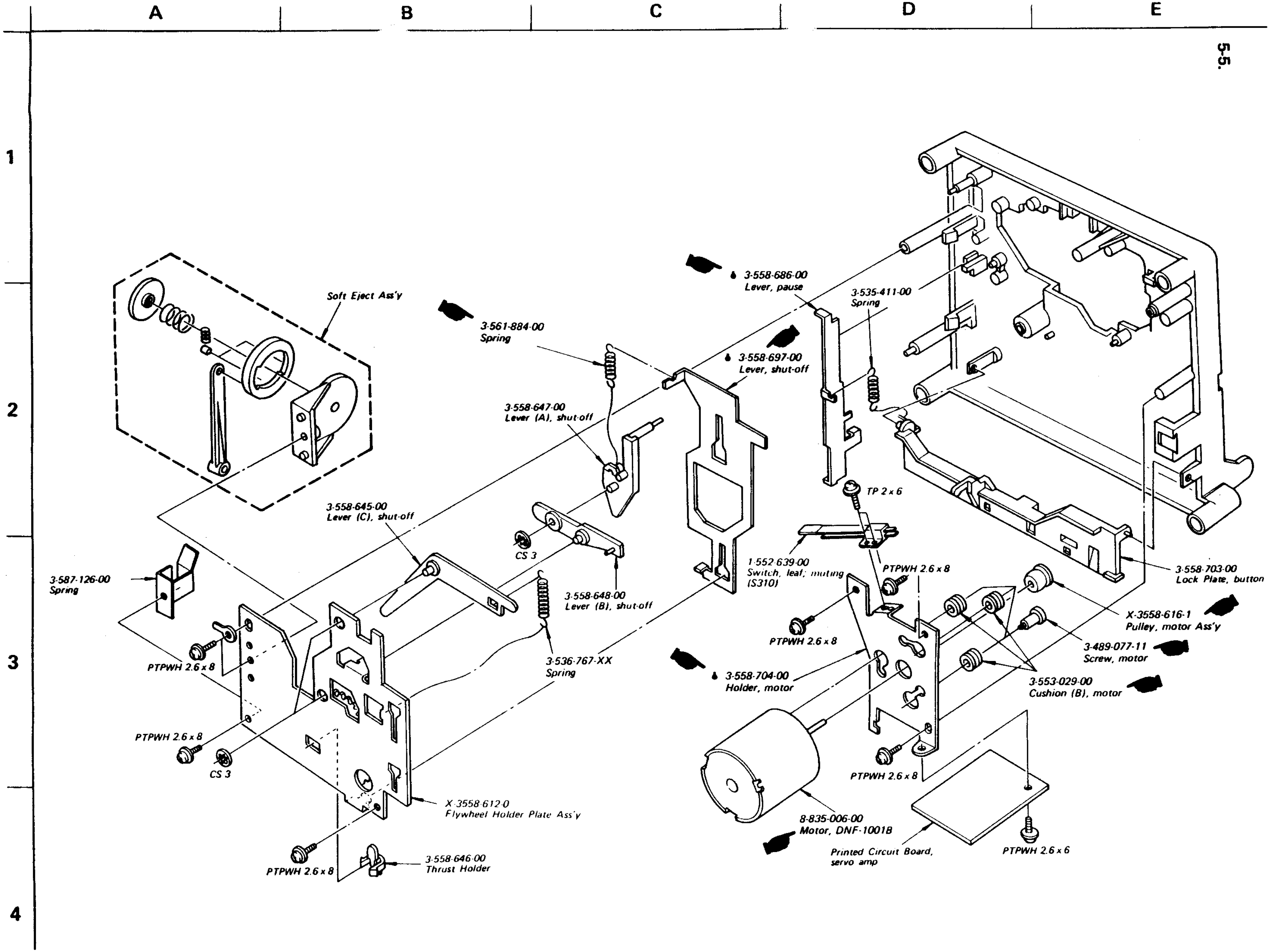
Note:

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All screws are Phillips (cross recess) type unless otherwise noted.
  (-) = slotted head
- ☛ : corrected portion

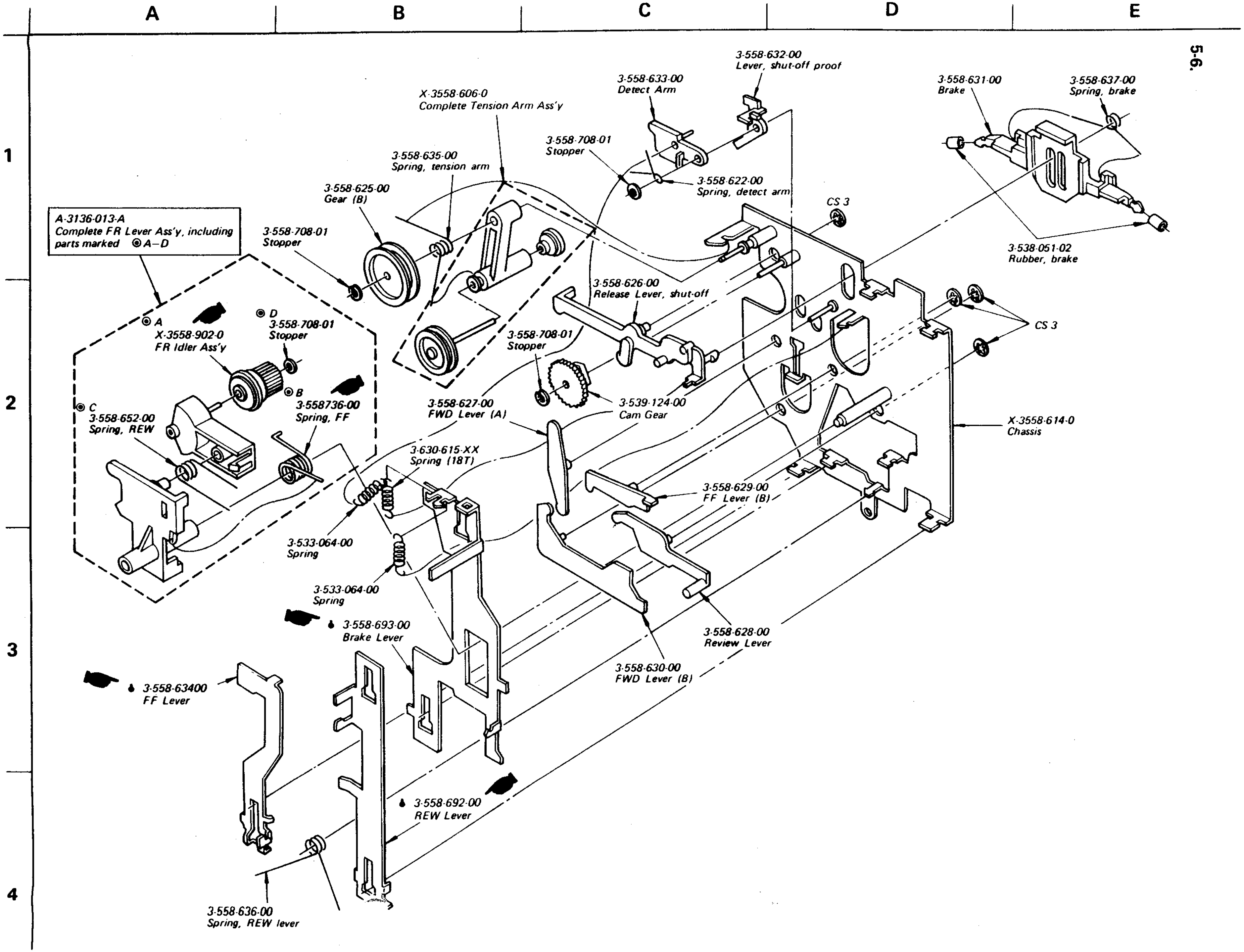

A
B
C
D
E
1
2
3
4
3-558-618-00
Spring, cassette hold
☛ ♦ 3-558-604-00
Lever, cassette hold
PTPWH 2.6 x 8
♦ X-3558-617-1 ☛
Sub-chassis Ass'y
3-558-605-00
Lock Lever, EJECT
3-558-606-00
Spring, lock lever
E 4
B 2.6 x 5
3-552-118-00
Sheet, cassette
3-587-151-00
Plate, cassette holder
☛
♦ 3-558-616-00
FWD Lever
3-539-230-00
Spring
3-558-643-00
Plate, head
Steel Ball, 3 mm dia.
3-558-608-00
Spring, compression
3-541-238-00
Spring
3-558-612-00
Lock Plate, pause
3-558-609-00
Spring, pause button
CS 3
3-558-696-00
Deck, head
☛
3-487-004-00
Spring
☛
♦ 3-558-614-00
Shaft, button
3-560-213-00
Holder, cassette
3-558-617-00
Spring, pause lock
8-825-506-00
Head, erase; EF135-36
(HE)
☛ 3-558-737-11 (t=0.2)
3-558-737-21 (t=0.3)
Shim, head-height
adjustment
PWH 2 x 12
3-539-237-00
Spring
☛
3-535-411-00
Spring
PS 2.6 x 4
X-3560-201-0
Cassette Holder Arm Ass'y
Steel Ball, 3 mm dia.
PTPWH
2.6x8
E 2
3-558-610-00
Spring, ground
☛
3-558-711-00
Button, EJECT
3-701-464-00
⊕ 2 x 10
3-558-613-00
Spring, head deck ☛
X-3558-620-0 ☛
Pinch Roller Arm Ass'y
☛
3-558-712-01
Button, FF, REW, FWD
E 4
8-829-373-00
Head, record/playback;
PP181-3602 (HRP)
3-513-237-01 (t=0.1)
3-513-237-11 (t=0.2)
Shim, head-height
adjustment
☛ 3-558-713-00
Button, STOP
3-558-714-00 ☛
Button, PAUSE
☛ 3-558-712-11
Button, REC

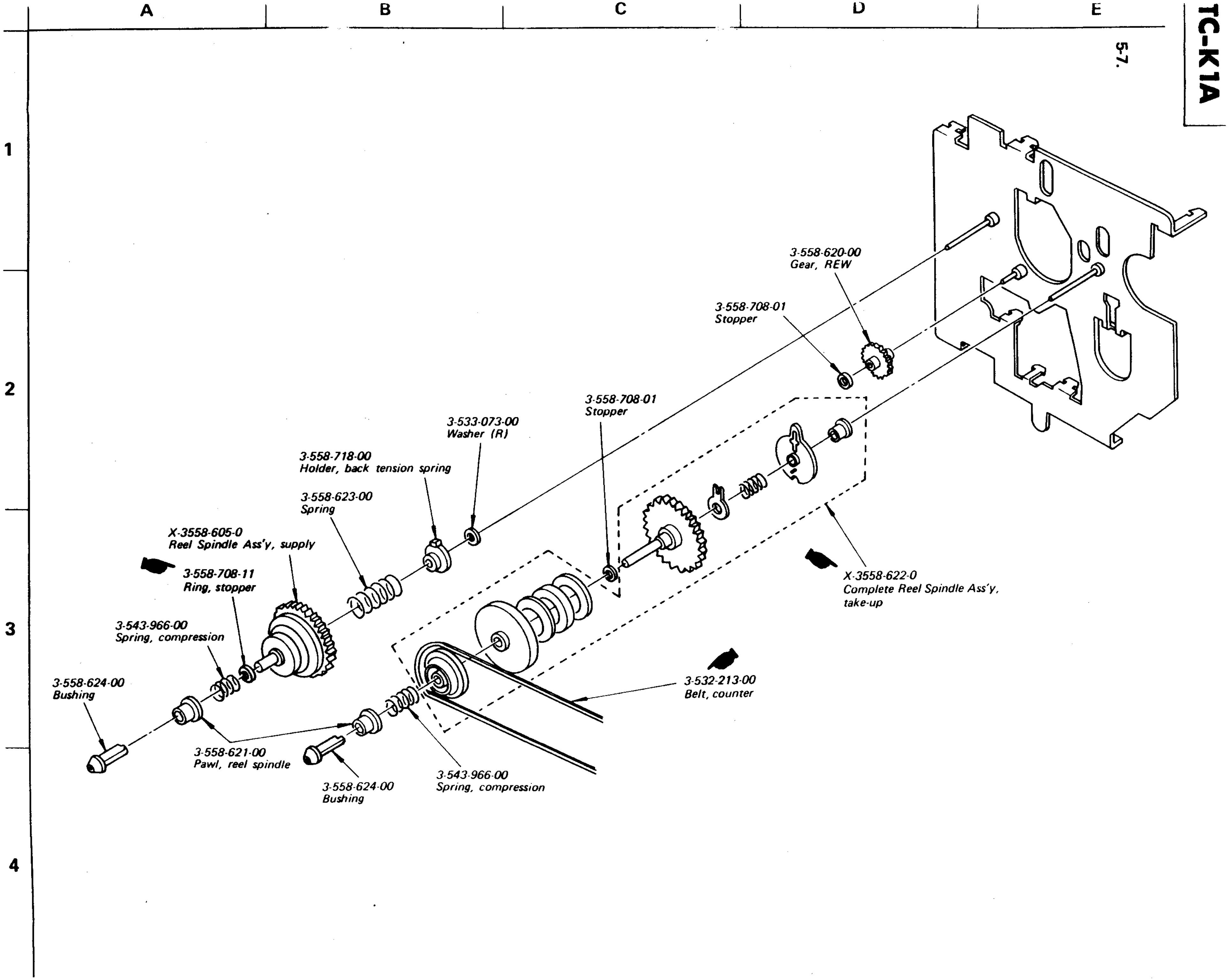
5-4.


A
B
C
D
E
1
2
3
4
3-558-707-00
Belt, shut-off
3-558-725-00 (t = 0.25)
3-558-725-11 (t = 0.1)
3-558-725-21 (t = 0.35)
3-558-725-31 (t = 0.188)
Washer, plastic;
2.5 mm dia.
X-3558-608-0
Flywheel (F) Ass'y
3-558-644-00
Gear
3-558-705-00
Belt (A), capstan
PTPWH 2.6 x 8
PTPWH 2.6 x 8
PTPWH 2.6 x 8
3-558-611-00
REC Lever (C)
3-535-355-00
Spring
PTPWH 2.6 x 8
3-558-615-00
Plate, REC proof
3-587-128-00
Spring, REC/PB switch
CS 3
CS 3
3-536-767-XX
Spring
3-558-639-00
RECORD Lever
CS 3
3-558-642-00
REC Lever (A)
3-558-695-00
REC Lever (B)
3-587-130-00
Spring
3-558-640-00
Plate, erasure proof
PTPWH 2.6 x 8
3-558-641-00
Lock Plate, eject
PTPWH 2.6 x 8
3-558-619-00
Spring, eject lever
3-558-694-00
EJECT Lever


A
B
C
D
E
1
2
3
4
Soft Eject Ass'y
3-561-884-00
Spring
3-558-686-00
Lever, pause
3-535-411-00
Spring
3-558-697-00
Lever, shut-off
3-558-647-00
Lever (A), shut-off
3-558-645-00
Lever (C), shut-off
CS 3
3-558-648-00
Lever (B), shut-off
TP 2 x 6
1-552-639-00
Switch, leaf; muting
(S310)
PTPWH 2.6 x 8
3-558-703-00
Lock Plate, button
3-587-126-00
Spring
PTPWH 2.6 x 8
X-3558-616-1
Pulley, motor Ass'y
PTPWH 2.6 x 8
3-489-077-11
Screw, motor
3-536-767-XX
Spring
3-558-704-00
Holder, motor
3-553-029-00
Cushion (B), motor
PTPWH 2.6 x 8
CS 3
PTPWH 2.6 x 8
X-3558-612-0
Flywheel Holder Plate Ass'y
8-835-006-00
Motor, DNF-1001B
PTPWH 2.6 x 6
Printed Circuit Board,
servo amp
PTPWH 2.6 x 8
3-558-646-00
Thrust Holder

5-6.


A
B
C
D
E
1
2
3
4
3-558-632-00
Lever, shut-off proof
3-558-633-00
Detect Arm
3-558-631-00
Brake
3-558-637-00
Spring, brake
X-3558-606-0
Complete Tension Arm Ass'y
3-558-708-01
Stopper
3-558-635-00
Spring, tension arm
3-558-622-00
Spring, detect arm
3-558-625-00
Gear (B)
CS 3
A-3136-013-A
Complete FR Lever Ass'y, including parts marked ◎A–D
3-558-708-01
Stopper
3-538-051-02
Rubber, brake
3-558-626-00
Release Lever, shut-off
◎ A
X-3558-902-0
FR Idler Ass'y
◎ D
3-558-708-01
Stopper
CS 3
3-558-708-01
Stopper
◎ B
3-558736-00
Spring, FF
◎ C
3-558-652-00
Spring, REW
3-558-627-00
FWD Lever (A)
3-539-124-00
Cam Gear
X-3558-614-0
Chassis
3-630-615-XX
Spring (18T)
3-558-629-00
FF Lever (B)
3-533-064-00
Spring
3-533-064-00
Spring
3-558-693-00
Brake Lever
3-558-628-00
Review Lever
3-558-630-00
FWD Lever (B)
3-558-63400
FF Lever
3-558-692-00
REW Lever
3-558-636-00
Spring, REW lever


A
B
C
D
E
1
2
3
4
3-558-620-00
Gear, REW
3-558-708-01
Stopper
3-558-708-01
Stopper
3-533-073-00
Washer (R)
3-558-718-00
Holder, back tension spring
3-558-623-00
Spring
X-3558-605-0
Reel Spindle Ass'y, supply
3-558-708-11
Ring, stopper
3-543-966-00
Spring, compression
3-558-624-00
Bushing
3-558-621-00
Pawl, reel spindle
3-558-624-00
Bushing
3-543-966-00
Spring, compression
3-532-213-00
Belt, counter
X-3558-622-0
Complete Reel Spindle Ass'y, take-up

Sony Corporation

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80F06107-1
Printed in Japan